1

Telescope, showing
Inside displayed to Violet means focus should be made Shorter

Pressing in Right Hand Switch of dome turning relay moves dome to the East

	Last Plato 1945		1946			1947		
Jan	10895	39	11805	44		13174	41	873
Feb	10923	28	11843	38		13209	35	908
Mar	11010	87	11926	83				
apr	11063	53	11987	61				
May	11081	18	12086	99				
June	11161	80	12301	215	1140			
July	11229	68	12532	231	2317			
aug	11381	152	12614	82	313			
sept	11543	162	12883	269	582			
oct	11626	83	13042	159	741			
Nov.	11694	68	13102	60	801			
dec.	11761	67	13133	31	832			

Hour Angle
End

our Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				David Dunlap observatory
				74" Logbook
				Vol 16
				Plate Nos: 12621 - 13533
				Sep 1946 - July 1947

NB Did not turn over old drawing book—: all plate numbers may be wrong

Date Sunday September 1-2, 1946 **Julian Day** 5h

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang.	Hour Ang. End
12621	HD 172187	18 33.7	+43 08	I-25	E 103a-o II 327469	.008 st.	+16.8	23.08	23.44	.1	02 35
12622	HD 200310	20 57.6	+45 48	"	"	.008	+16.8	23 51	23.59	2.3	01 23W
	HD "	"	"	"	"	"	"	23.59	00.04	2.8	01 23W
12623	HD 203374	21 16.7	+61 25	"	"	"	+16.8	00.09	00.37	3	01 45W
12624	HD 206773?	21 393	+59 17	"	"	"	+16.7	00.41	01.29	4	02 14W
12625	HD 217050	22 52.7	+48 09	"	"	"	+16.6	01.36	01.43	4.3	01 13W
	"	"	"	"	"	"	"	01.43	01.48	4.8	01 18W
12626	HD 224559	23 53.8	+45 52	"	"	"	+16.5	01.52	02.12	5	00 40W
12627	HD 215566	22 41.0	+44 14	"	"	"	+16.5	02.15	02.47	8	02 27W
12628	HD 3264	00 30.7	+48 00	"	"	"	+16.5	02.51	03.21	4.5	01 14W
	~~HD 5638~~				"						
	HD 4180				E 103-o II 320 879						
	Focus Test							Outside thick Boro		4.8	
			Mon Sept 2	MC	SC	SW	TW	STW			
				-21.5^s	+20.2^s	-16^s	-03.5^s	+0.4^m			

Heavy rain before Sunset, clearing about 20h but dome very wet. Open up 22h 45, dome still not dry but much improved.

Flashlight needs attention

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	Focus Set 23·53 + 00·02 · REMARKS
03 35 W	+43 13	1+	6.40	A5	3-3-3	Binary. Guiding Poor - very awkward at this hr ∠. Had to unclamp RA by hand.
01 29W	+46 00	1-2.	5.2	B3 ne	4-4	MWC 360.
01 29W					4-4	
01 45 W.	+61 41	2	6·6	Bone	3-3-3	MWC 366
02 14W	+ ?	1-2	7.0	Bone	3-3-3	MWC 378?. Seeing Variable. 01.25: Suspicious of this. * seems too bright, at moments of good seeing looks like double. Flashlight mistakenly and I forget to read Ke. pt and. Likely a wrong *
01 13W	+ 48 25	2-3	5·2	Bone	4-4	MWC 374
01 18 W	"	"	"	"	4	MWC 374
00 40W	+ 46 08.	2	6·5	B3 ne	3-3-3	MWC 407
02 29W	+ 44 29	3	7·02	B8.	3-3-3	Binary A plate shattered and broke white pulling on end of plate holder
01 14W	+ 48 18.	3	7.14	B2.	3-3-3	Binary What is wrong with these plates! Another broke while being loaded.
						Binary Clouding in rapidly 03·00 * gone 03·05. Bdbr. 03·15 * gone 03·20.
						MWC 8. Closed up - outlook hopeless
					10-7.	
	Cleared as quickly as it filled in		by 04·00. Too late!			Holders 1, 3 Loaded 103-a-o 2 " 103-o, and, 2 Cut 103-a-o plates in relig. Heat NOT on Mirror

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Date MON SEPT 2-3 1962 Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12629	HD 3264	00307	+48 00	I-25'	E103a0	008	14.4	20 48	21 28	1
12630	5638	00 53.0	+46 31	"	"	"	14.4	21 36	21 52	3
12631	183143	19 23.0	+18 05	"	103-0	"	14.4	21 59	22 35	2
12632	164898	17 59.6	+45 21	"	E103a0	"	14.3	22 38	23 10	3
12633	199763	20 54.1	+30 00	"	103-0	"	14.3	23 14	23 54	2
12634	213389	22 25.9	+48 51	"	103a0	"	14.3	23 59	00 23	1
12635	208682	21 52.9	+64 52	"	103-0	"	14.3	00 28 00 37	00 36 00 47	2
12636	211460	22 12.1	+28 41	"	103-0	"	14.3	00 52	01 28	3
12637	218356	23 02.2	+24 56	"	103-0	"	14.3	01 32	01 48	2
12638	225292	23 59.9	+27 07	"	103-0	"	14.3	01 51	02 37	3
12639	7905	00 27.3	+62 23	"	103-0	"	14.3	02 43 02 46 02 50	02 45 02 49 02 54	2
12640	4180	00 39.2	+47 44	"	103-0	"	14.3	03 03 03 06 03 10	03 05 03 09 03 14	3
12641	YP 433	1 22.6	+88 46	"	103-0	"	14.3	03 39	03 50	2
12642	HD 5638	00 53.0	+46 31		103-0	"	14.3	04 14	04 42	2
12643	(3264 Focus Test				103a0		14.3	04 45	05 05	1

Holders 1 2 3 1030 — #3 may not be spotted
4 1035 0

Set focus 23.56

ng Time S.T.		Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
28	1	4 32 E	+48 20	2	7.14	B_2	3-3-3	No apparent haze, twice tabulated for consistency. poorly guided fine
52	3	4 35 E	+46 48	2+	6.47	B_2	3-3-3	1½ x tal. Moved guiding point to bump pier, tested, but no apparent drive problems. V. poorly guided good
35	2	1 39 W	+18 13	3	6.9	B_9 sco	3-3-3	MWC 317 Setting checked 3x tal too weak
10	3	3 39 W	+45 26	3-	7.44	A_0	3-3-3	star runs off slit poorly guided fine
54	2	1 27 W	+30 15	3	7.19	K_0	4-4-4	New Reg Looks double on slit Very good
23	1	0 24 W	+49 09	3	7.55	K_1	3-3-3	poorly guided strong
36 47	2	1 11 W 1 22 W	+65 08	3	5.8	B_3 ne	5-5-5 {3 5-5-5 {8	MWC 381 poorly guided Good strong
28	3	1 44 W	+25 55	3	6.84	G5	4-4-4	N.P. Faint for 7.0? weak
48	2	1 13 W	+25 13	3	6.16	K_0	4-4-4	N.P. fine
37	3	1 04 W	+27 27	3	7.35	G5	4-4-4	N.P. NOT NUMBERED fine
45 49 54	3	0 54 W	+62 41	3	4.2	B_8 sco	5-5-5 2 5-5-5 5 5-5-5 8	MWC 7 fine strong
05	3	0 57 W	+48 01	3	4.7	B_9 neB	5-5-5 5-5-5	" 8 strong
50	2	0 27 W?	+89 03	3	3.0	F7	16 10 10	60²-80-100⁵ flipper in ½; out of focus (can't guide along slit) fine
42	3	2 16 W	+46 48	3	6.47	B_2	4-4-4	had to reset RA circle; picked 2 N.P stars in crowded fields, had to change. poorly guided fine
505	1	3 02 W	+48 18	3	7.14	B_2	3-3-3 {5 10-7 }	Clouds forming in west. Down 1m 04 32, clouds coming in regularly, nearly gone at 04 35, clear 04 35 Brighter cloud, but nearly all missed star. good Seems a bit of daylight on the jars, by 0500, but the fog at 505.

center to wide; center exposure very weak

Date Tuesday September 3-4, 1946 5h Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12644	HD 3264	00 30 2	+48 00	I-25	E103-a-0 #327409	Set .008	+15 8	19 27	20.11	4
12645	HD 164898	17 58.3	+45 21	"	"	.008	+ 15.8	20.26	20.56	1
12646	HD 164284	17 553	+04 22	"	E103-0 #320879	"	+ 15.8	21.01	21.06	2.3
	HD 177648	"	"	"	"	"	"	21.06	21.09	2.8
12647	HD 177648	19 00 5	+23 11	"	E103a-0 #327469	"	+ 15 8	21.12	21.32	4
12648	HD 180316	19 11 0	+27 46	"	"	"	+15 8	21.35	21.47	1
12649	YP 5443, Boo 4595	18 04 9	+03 06	"	"	"	+ 15.8	21.51	22.03	2.3
	HD 177648	"	"	"	"	"	"	22.03	22.09	2.8
12650	HD 167135	18 08.8	+ 11 51	"	"	"	+15.8	22.14	22.28	4
12651	HD 168131	18 ~~13~~ 132	+ 11 51	"	"	"	+ 15.8	22-34	22.56	1
12652	HD 193349	20 14.7	+ 14 04	"	"	"	+15.8	22.59	23 13	2
12653	HD 202313	21 09.9	+ 30 33	"	"	"	+15.8	23.16	23 46	4
12654	HD 205314	21 294	+49 30	"	"	"	+ 15.8	23 51	23.58	1
12655	HD 209833	22 01.0	+28 25	"	E103-0 #320879	"	+15.8	00-02	00.12	3
12656	HD 210925	22 08.6	+25 26	"	E103-a-0 #327489	"	+15.8	00.17	00.33	2
12657	HD 211400	22 12.1	+28 41	"	"	"	+158	00 36	00.50	43

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	MC	SC	MTW	STW
Tuesday September 3 : 1200:	−21.3^s	+21.4^s	+03.7^s	+0.5^m.

Plates 12644 - 12646 developed by Ta. Arc needs adjustment.

Focus Set 23.54 to 00.02

ng Time S.T.		Hour Angle End	Declination	Seeing	Ptg. Mag.		COMP	REMARKS
11	4	05 51E	+ 48 18	2	7.14	B2	5 - 4	* lost for total of 15 minutes. much too weak
56	-1	01 28W	+ 45 24	3	7.44	A0	3-3-3	Reset RA circle. Binary. Clock running comfortably slow. very good
		01 42W	+ 04 24	3	4.8	B5ne	4-4-4	MWC 278
		01 45W	"	3	"	"	4-4	} weak
	4	01 03W	+ 23 18	3	6.9	B3e	3-3-3	MWC 310 too weak
47	1	01 07W.	+ 27 56	3	6.51	B5	3-3-3	Binary Some water dropping from mirror cell v. good
03	2	02 28W	+ 03 09	3	6.1	F5	4- 4	Flopper in ½ good
09	2	02 34W.	"	3	"	"	4- 4	Flopper in ½ weak
28	4	02 50W.	+ 11 54	3	6.76	A0	6 -3	Velocity *. Arc fell out 22 18. Reproduced 22 24 much too weak
56	1	P3 14W	+ 11 54	2-3	6.97	B8	3-3-3	Velocity *. Telescope very unstable - terrible time keeping * on slit too weak
13	2	01 30W	+ 14 16	2-3	6.81	A0	3-3-3	Binary. Finder: ⊕ N weak
46	4	01 08W	+ 30 48	3	7.56	A0	3-3-3	Binary guiding fine
38	1	00 59W	+ 49 47	3	5.76	A0n	4-4	Binary. fine
24	3	00 44W	+ 28 44.	3	5.56	B9n	4-4	Haze? Binary. (RA seems some way out). 1" may not be split" ✓ fine
33	2	00 52W	+ 25 43	3	6.98	G5	3-3-3	Velocity * (new programme) ✓ good
57	2	01 10W	+ 28 58	3	6.84	G5	4-4	Velocity * (new programme) fine

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
01 30 W	+ 25 47	3	7.27	K0	3-3 3	
00 31 W	+ 17 14	3	6.16	K0	4-4	
00 51 W	+ 28 25	3	7.26	K0	3-3-3	
00 05 W	+ 20 01	3	6.0	K	4 4	
00 11 W	+ 31 07	3	6.78	F1	4-4	
00 31 W	+ 31 09	3	6.3	G0	4-4	
00 51 W	"	"	"	"	4-4	"
00 31 W	+ 23 09	3	5.4	G5	4-4	
00 17 W	"	"	"	"	4-4	"
01 51 W	+ 31 15	"	7.14	B3	3-3-4	
00 11 W	+ 26 38	3	6.47	B2	4-4	
01 41 W	+ 25 14	3	7.23	F5	3 3-3	
01 00 W	+ 20 49	3	6.0	G0	4-4	
01 30 W	"	"	"	"	4-4	
00 32 W	+ 18 56	3	5.0	F1	4-4	
01 43 W	"	"	"	"	4-4	

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1262	SF 603			C 27			+15°	4 35		
	SF 603 A						+13°			
	Focus Test									

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Co Mp	REMARKS
	01 27m	+25 44	3"	5.4	Fo	4-4	Flare ½
		"	"	"		4	"
		"	"	"		8	"
	01 32m	+30 59	3"	5 5	F4	4-4	" Normal * for seconds exposure
	01 33m	"	"	"		4	"
						4-10	

Wed Sept 4

MC	SC	SW	MTW	STW
-22.5^s	+21^s	-20^s	+9^s	+0.4^m

Date WED SEPT 4-5 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End	
12672	HD 174886	18477	−10 21	T-2Y	E103a O	008	18 0	19 39	20 41		2
	γ Sagittae	18 57	+32 41	for purity of finish astronomers to resume service							
12673	HD 180316	19110	+27 4-	"	"	"	17·8	22 40	23 04		3
12674	20Ψ42	21 249	+28 07	"	"	"	17 8	23 10	2344		4
12675	210425	22 08·6	+25 26	"	"	"	17·8	23 48	00 03		2
12676	211460	22 12 1	+28 41	"	103-O	"	17 8	00 11	00 39		1
12677	213025	22 25 5	+24 31	"	103-O	"	17·8	00 42	01 22		4
12678	215516	23 02·2	+24 56	"	103-O	"	17·8	01 26	[illegible]		1
12679	23136Ψ	[illegible]	[illegible]	"	103a-O	"	17·8	01 43	02 03		2
12680	[illegible]	00 30 7	+45 00	"	"	"	17-8	02 07	[illegible]		3
12681	γP 222	00 43 1	+04 46	"	"	"	17 8	02 15	02 57		2
12682	31Ψ	00 49 8	+14 24	"	103-O	"	17·8	03 04 47	03 38		1
12683	7 27	02 16 9	+44 54		103a-O		17 8	03 45	[illegible]		2
12684	HD 15472	02 24 4	+17 35		"		17·8	04 14	05 [illegible]		3
	Julian Field										

Hollow 1-4 103-0
2-3 103-0
2 cut a-d - with i
11 123-0 + 1 dummy (W, 3rd row) Set focus. 23.81

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
028W	-10 14	1-2	8.1	B_3e	3-3-3	MWC 307 Telescope seemed to be easy to make improvements to see star or star was [illegible] (Rain warning)
			3.3 V			→ Guide * focussed in part by viewing window, Moon Light etc. → telescope jammed on stand many times during with Dec + RA
2 28W	+27 55	2±	651	B_5	3-3-3	Seeing variable. Bin
0 54W	+28 24	2-3	754	K_2	3-3-3	Cross wires of view. Telescope badly [illegible], making [illegible] N.P.
0 34W	+25 44	2-3	6.98	G_5	3-3-3	N.P.
1 03W	+28 57	2-3	6 84	G_5	3-3-3	N.P.
1 34W	+26 47	3	7.27	K_0	3-3-3	N.P.
1 13W	+24 14	3	6.16	K_0	3-3-3	N.P.
1 13W	+28 24	3-	7.26	K_0	3-3-3	N.P.
0 35W	+48 19	2+	7.14	B_2	3-3-3	B=. PLATE BROKE IN 3 WHEN UNLOADING Closing up to [illegible]
0 40W	+05 02	2+	6 8	K_4	3-3-3	[illegible] 2/3 [illegible]
0 52W					3-3-3	
1 10W	+14 42	2+	5 9	F_2	3-3-3	3) 8) 1/2
0 23W	+55 16	3	7.1	F_8	3-3-3	1/2
1 10W	+70 46	2+	8.0	$B_{9}pe$	3-3-3) 10-7	MWC 49 [illegible]

HEAT ON MIRROR - [illegible]

Date Sat. Sept 7-8.1946 Ha. Sh. To W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	Sunday Sep 8-9								
	Solid clouds all morning Rain at 0h EST								
	Monday Sept 9-10/46								
	Overcast, with intermittent rain from 22 00h								

Thurs Sept 5-6 Mt Lyr. Clouds 1900. Heavy cloud bank moving in from N. 2000. Strong wind !!
Heavy cloud banks 2100. Stars very dim. Wind & cloud raised 2200. Continuing with
heavy clouds 2300-2400. Hopeless by 0100 FORECAST. Clear Sept 6-7. cloudy for a few
hrs. before day break. Warm. W.
Fri Sept 6-7 - Partly cloudy, haze, to 00.30. Did not open up at all 30 cross wires in upper finder shall not centred. To

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
Sat Sept 7-8	40 Visitors. showed Saturn with 74". Hd. Sh. Broken clouds moving in at 2200. Forecast at 2300. Solid 0000. 0100 Hopeless. Forecast cloudy with rain. W.			

Sept 9

MC	SC	SW	STW	MTW
-26.3^s	+19.8^s	-.25^s	+0.9^m	+29.1^s

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Date [illegible] 51 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Sept 11 MC SC SW MTW STW

-28^s $+19^s$ -27^s $+34.9^s$ $+1.05^m$

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
3 [illegible] E	[illegible]	3	7.0	160	3-3-3	[illegible]
[illegible] 3 E	+26 15	3	7.23	170	3-3-3	[illegible]
[illegible]	[illegible]	3	7.54	175	3-3-3	[illegible]
[illegible] 04E	[illegible]	3	7.54	175	3-3-3	[illegible]
					10-10	

[illegible]

Date Wed Sept 11-12 1946 1a Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
12689	HD 174886	18 47.7	−10 21	T-25	E103a0	.008	17.6	19 13	20 33	2	048
12690	180316	19 11.0	+27 46	"	"	"	17.6	20 37	20 59	3	251
12691	180398	19 11 3	+12 56	"	"	"	17.6	21 02	22 00	2	32
12692	174.43	19 23 0	+12 03	"	"	"	17.5	22 03	22 31	3	5 1 W
12693	204510	21 24 2	+25 31	"	"	"	17.3	22 34	23 18	2	5 37 W
12694	206773	21 39 3	+57 17	"	"	"	17.3	23 23	23 49	3	4 W
12695	206723	22 [illegible]	+27 [illegible]	"	"	"	17 3	23 54	0048	2	131 W
12696	[illegible]	23 35 0	+26 [illegible]	"	"	"	17.2	00 51	01 31	3	1 W
12697	2905	00 27 3	+62 23		E103a0		17 2	01 34 39 44	01 38 43 50	1	0 28 W
12698	YP 210	00 43.0	+57 17		"		17.2	01 56 02 05	02 54 10	4	0 30 W
12699	HD 4180	00 39.2	+47 44		"		17.2	02 17 33 30	02 23 30 38	1	32 W
12700	YP 478	01 3.9	+48 07		"		17.2	02 47 55	02 54 03 07	4	2 W
12701	YP 627	01 06 6	+49 50		E103a0		17.2	03 12 34	03 34 04 12	1	59
12702	HD 19443 Fine-Fld	03 03	+62 00 OTB		E103a-0		17 1	04 06	04 22	2	0 4 W
12703	YP 919	03 01 8	+49 14				17.1	04 41 48	05 47 56	1	3 57 W

(10 103a-0 32755-4 in objective
6 103 0 " " "
Holders 2+4 loaded 1030-0
4
guaranteed lights on up!
Ed focus 23 52

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g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
33	0 48w	-10 15'	0-1-2	8.1	B_{3e}	3-3-3	MWC 307. Condensation star on slit at 19.0. Bayonet focus switch needs adjustment
59	0 51w	+27 55'	0-1	6.51	B_5	3-3-3	Bin
50	1 52w	+13 04	0-1	7.7	B_3ne	3-3-3	MWC 312 Bayonet slit trying to hold it.
231	2 11w	+18 15'	1+	6.9	B_9sex	3-3-3	MWC 317
18	0 57w	+25 45'	1+	7.58	K_2	3-3-3	N.P.
49	1 14w	+57 33	1+	7.0	$B_{0.e}$	3-3-3	MWC 376
048	1 01w	+27 45	1+	7.79	G_5	3-3-3	N.P.
1 21	1 00w	+27 15	1	7.43		3-3-3	N.P. EXPOSED THROUGH GLASS
	0 26w	+62 42	2?	4.2	B_{0}ex	5-5 5-5 5-5	MWC 7 Bad emulsion and grating
	0 30w	+5 13	2?	4.2	F_9	5-5 5-5 5-5	2) 8) Ilypsin = 1/2
	1 02w	+48 02	2?	4.7	B_{1}ep	5-5 5-5 5-5	2) 5) 6) MWC 8
	0 38w	+48 24	2	5.1	K_2	4-4-4 5-5	3) 8) Ilypsin = 2/3 Setting circles moved
	0 59w	+30 05'	2+-3	6.4	G_4	4-4-4 4-4-4	3) 8) Ilypsin = 1/2 Commander session
	0 24w	+62 14	2+	6.5	B_3e	3-3-3 10-7	5) 8) MWC 61 Also thru glass xx!
	0 57w	+49 26	2+	4.8	G_1	5-5 5-5	2) 5) 8) 2 = 1/2

Date Thurs. Sept 12-1946 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12704	HD 164898	17 38.3	45 21	I-25	New lot E103aO	.008	14.4	19 18	20 40	2
	HD 213389	22 25.9	48 51	"	"	"		20 59		
12705	HD 213389						14.4	21 16	21 43	3
12706	HD. 180316	19 11.0	27 46	"	"	"	14.4	21 55	22 17	1
12707	HD 3264	00 30.7	14 58	"	"	"	14.3	22 37	23 07	2
12708	HD 6755	22 01.0	28 28	"	E103O	"	14.3	23 21	23 50	4
12709	HD 216134	22 46	46 15	"	E103aO	"	14.3	23 42	00 16	1
12710	HD 22053	23 24.3	26 16	"	"	"	14 3	00 26	00 51	2
12711	HD 10548	01 35.2	31 43	"	"	"	14 2	02 17	03 41	3
12712	HD 16895	02 37.1	43 07	"	"	"	14 2	03 53	04 37	4
12713	HD 3264	00 30.7	15 58	"	"	"	14.2	04 48	06 [illegible]	1
		Focus Test						E.S.T.		

Steady all morning all day. Wind increasing all night. Seeing variable.

Focus - 23.57

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.					REMARKS
									Couldn't see star on slit at 19.10
40	1.50W.	45 23	0	7.44	A0	3	3	3	
		49 08	3	7.55	K1	3.			Set on guiding star, used 1900 RA. in error at "5"
41	1.35E.	4907	3	7.55	K1	3	3	3	⊙ Piece. Seems bright for 7.55. at "8
07 1	2.15W	27 56	2-1	6.51	B6	3	3	3	Light cloud streaks.
07 2	2.16E	4820	1-2-0	7.14	B2	3	3	3	" " " 2.55
5	0 42W	28 45	2	5.56	B9n	3	3	3	
	1 19W	45 34	2	7.10	G0	3	3	3	
3	1 54W	25 33	1-0	8.86	K2	3	3	3	
1	1 19W	31 39	0	7.20	G5	3	3	3	
7	1 07W	43 22	0	6 7/2	A2	3.3	3		
1	4 [illegible]	48 18	0	7.14	B2	3.3	3		THIS PLATE [illegible]
								10/7	RA. [illegible]

Fri Sept 13 MC SC SW MTW STW

-28.7^s $+19.5^s$ -26.4^s $+44.8^s$ $+1.2^m$

Date FRI SEPT 13-14 1946 **Ta** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12714	HD 3264	00 30.7	+48 00	I-24	Eastman 103a O	.0058	15.4	19 05	19 35	1
12715	168498	18 14.9	+11 50	"	"	"	15.4	19 41	20 09	2
12716	164498	17 58.3	+45 21	"	"	"	15.4	20 13	20 45	3
12717	175823	18 52.3	+59 53	"	"	"	15.5	20 48	21 08	4
12718	177648	19 00.5	+23 11	"	"	"	15.5	21 12	21 32	1
12719	180316	19 11.0	+27 42	"	"	"	15.4	21 36	21 50	2
12720	192044	20 07.8	+26 11	"	"	"	15.4	21 54	22 02	3
12721	198183	20 43.5	+36 07	"	"	"	15.4	22 08	22 21	4
12722	203374	21 16.7	+61 25	"	"	"	15.4	22 25	22 37	1
12723	206682	21 32.9	+64 52	"	"	"	15.3	22 41	22 47	2
12724	206332	21 36.3	+28 18	"	"	"	15.4	22 57	23 21	3
12725	213025	22 03.5	+26 31	"	"	"	15.3	23 24	23 45	4
12726	217050	22 52.7	+48 09	"	"	"	15.2	23 51	23 59	1
12727	217313	23 02.6	+49 40	"	"	"	15.2	00 03	00 17	2
12728	219418	23 10.5	+25 08	"	"	"	15.4	00 20	00 48	3
12729	222380	23 25.0	+26 59	"	"	"	15.3	00 50	01 16	4

Set focus 23.5 cm

Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
5 46E	+48 20	1-2	7.4V	B_2	3-3-3	Bin
1 05W	+11 53	2	7.34	A_0	3-3-3	8×8 zone — RA slow motion still slow about 1 in 3.5 hours
1 58W	+45 25	2	7.44	A_0	3-3-3	Bin wanted 20h40
1 28W	+60 00	2	6.9	Bve	3-3-3	MWC 308 — ~8 in. Vega — 20 57.5 -2m meteorite just before plate
1 42W	+23 17	2	6.9	B_2e	3-3-3	MWC 310. Double, several seconds
1 50W	+27 55	2+	6 51	B_5	3-3-3	Bin
1 05W	+26 21	2+	5.9	B_8nC	3-3-3	MWC 331
0 43W	+36 22	3	4.5	B6e	4-4 / 4-4 / 4-4	1/8 MWC 352 60, 90, 120s
0 32W	+61 41	3	6 6	$B_{0.5}$	3-3-3	MWC 366
0 06W	+65 07	3	5.8	B3ne	3-3-3	MWC 381 Neb. just [illegible] ?
0 57W	+28 33	2+	7.54	G5	3-3-3	N.P. Turned bad or clock error? RA slow motion took [illegible]
0 31W	+26 48	2+	7 27	K0	3-3-3	NP
0 17W	+48 26	3	5:2	B3ne	4-4 / 4-4 / 4-4	3/8 MWC 394 150s, 220s
0 26W	+49 55	2	6.8	Ave	3-3-3	MWC 397
0 49W	+25 25	2+	7.44	K0	3-3-3	N.P.
0 53W	+27 16	2+	7 43	K0	3-3-3	N.P. all these plates fogged.

cont'd

Date FRI SEPT 13-IV 1946 **To** **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12730	HD 2905	00273	+62 23	I-25'	103a-O	.008	15°.3	01 24	~01 30	1
12731	1180	00392	+47 44	"	"	"	15°.3	01 38	01 41½	2
12732	5638	00530	+46 31	"	"	"	15°.2	01 51	02 01	3
12733	YP 305	00578	+07 21	"	"	"	15°.2	02 09½	02 25	4
	395	01138	+57 42							
12734	HD 12402	01565	+27 56	"	"	"	15°.2	02 45	03 05	1
12735	YP 705	02166	+40 57	"	"	"	15°.2	03 08 17	03 16 29	2
12736	HD 15472	02244	+70 30	"	"	"	15°.2	03 39	04 21	3
12737	19243	03007	+62 00	"	"	"	15°.2	04 25	04 35	4
12738	YP 995	03172	+49 30	"	"	"	15°.3	04 41	~04 46	1
12739	HD 3264	03367	+47 00	"	"	"	15°.3	04 50	05 08	2
	Zero Limit		0°.3.							

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 14w	+62 41	3"	4.2	Bose	4-4 4-4 4-4	MWC 7 40, 60 80^s } fogged
	0 18w	+48 02	3"	4.7	Bneβ	4-4 4-4	MWC 8 80 110 140^s } fogged
	0 19w	+46 48	3"	6.07	B_2	3-3.3	Bin
	0 37w	+07 35	3"	5.3	Gr	4-4 4-4	Dlppjan in 1/2. Wedged 5^{min} exp will slide under cover. Comp will flippan
				5.8	F_7		Cannot identify. Only bright star near. decision 5^{hr} 56^m ??
	0 20w	+28 10	3"	7.79	K_1	3-3-3	N.P. Trim out two crossings.
	0 24w	+41 12	3"	6.3	F_2	4-4 4-4	Dlppjan in 1/2
	1 07w	+70 47	3"	8.0	Bne	3-3-3	MWC 49 Fuzzy dark bumps shows in top of slit field.
	0 44w	+62 13	3	6.5	B_2e	3-3-3	MWC 61 MAYBE IS INVERTED HEADED - BOX LEFT ALONE
	0 40w	+47 43	3	2.3	cF4		Dlppjan in 1/2 15, 20, 25^s
	3 49w	+48 18	3"	7.14	B_2	3-3-3 10-7	Bin.

4 hidden leaders 1030 0, Box of T-wafers
4 Serpent plates packed in box, with other plates.

Date Sat. Sept. 14-15/40 H.St.Ta./W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12740	HD 3264	00 30.7	+48 00	1-25	Ex 103a O	.008	17.7	22 02	22 16	1
12741	HD 209813	22 01.0	+46 45	"	"	"	17.7	22 29	22 49	2
12742	18 316	19 11.0	+27 46				17.6	22 59	23 29	3
12743	210134	22 06	+43 15				17.5	23 38	23 54	4
12744	212442	22 19.2	+14 46	"	"	"	17.5	00 07	00 31	1
12745	225043	23 03	+72 36	"	"	"	17.5	00 41	01 05	2
12746	2019	00 19.4	+36 49	"	"	"	17.5	01 14	01 38	3
12747	3264	00 30.7	+48 00	"	"	"	"	01 37	01 55	4
12748	5638	00 53.0	+46 31	"	"	"	"	01 58	02 08	1
12749	8862	01 23	+43 32	"	"	"	"	02 13	02 25	2
12750	11165	01 44.9	+46 58	"	"	"	"	02 30	02 46	3
12751	15138	02 21.2	+50 07	"	"	"	"	02 52	03 02	4
12752	16155	02 37.1	+43 07	"	"	"	"	03 08	03 20	1
12753	18173 N	02 53.1	+59 19	"	"	"	"	03 30	03 58	2
12754	19536	03 03.5	+60 15	"	"	"	"	04 05	04 26	3
	21017	03 15.4	+24 31							4

about 150 miles? Holmes M13 & M57 M 74 and
Sw. rhod Alcor Mizar, Thuban

focus 23.52

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
03 00 E	48 19	3	7.14	B2	9	
00 04 W	47 02	3-4	7.52	K0	5	forgot last 4 sec. comp. in haste.
03 35 W	27 55	2-1-3	6.51	B5	3 3 3	
01 05 W	45 32	3	7.10	G0	3 3	Had to unclamp light at this angle
01 20 W	15 02	3+	6.71	B8	6 3	R.A. Shutter would not move at this angle
00 23 W	72 54	3+	7.58	A2	6 3	took it at 89°20 RA moving slowly Retinator clad.
00 26 W	31 08	3+	6.78	B9	6 3	clock ok Seeing so good, thought I'd do a couple more to see if
00 39 W	48 18	3+	7.14	B2	6 3	
00 31 W	46 47	3+	6.47	B2	6 3	
00 14 W	43 48	3+	6.54	B9	6 3	
00 16 W	47 12	3+	7.09	B9	6 3	Took this to fill in time.
00 04 E	50 22	3+	6.61	F2	6 3	
00 01 E	43 20	3+	6.72	A2	6 3	
00 20 W	29 30	3+	7.35	A0	6 3	(+) Plate: THE STARS ALSO APPEARED WHITE Visual: HEBULOUS OR BLUE
00 39 W	60 27	3+	7.26	A15	6 3	
			6.97	F5		HB

Date Sat. Sept. 11-12 1926 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	24560	03 49.3	+44 38	I 25	E 103a D	.005	17.5	04		
12755	23626	0341.5	31 54					04 40	04 50 4	
12756	23838	03.431	+44 40					04 57	05 07 1	
12757	27483	04 15 2	13 38					05 13	05 25 2	

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
				7.8 B3 Neb			Light not all brought to bear in finder check circles several times.
+50	00 24W	32.05	3+	6.65 F6		6 3	M.W.C. 19 NO EXPOSURE
+07	c 04 W	+44 52	3+	6.57	40	4 5	NO EXPOSURE Seeing at least 4+ THIS WAS NUMBERED 12757
+45	00 25W	1347	4	6.56	F4	4 5	THIS NUMBERED 12757 2 Wide bands. 4 in finder in sky. THIS pair of nice little stars. Just right of the long line of

33

Date [illegible] 15-16 1946 **Julian Day** 2431079

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
11756	[illegible]	17 58.3	+25 21	C-25	[illegible]	.005	+19.7	19.00	[illegible]	3
11757	[illegible]	[illegible]	[illegible]	"	"	"	+19.7	[illegible]	[illegible]	4
11758	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	1
11759	[illegible]	[illegible]	[illegible]	"	"	"	+19.6	20.52	[illegible]	2
11760	[illegible]	[illegible]	[illegible]	"	"	"	+19.5	[illegible]	[illegible]	3
11761	[illegible]	[illegible]	+26 11	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	"	"	"	"	"	"	+19.6	[illegible]	[illegible]	[illegible]
11764	[illegible]	[illegible]	[illegible]	"	"	"	+19.6	[illegible]	[illegible]	[illegible]
11765	[illegible]	[illegible]	[illegible]	"	"	"	+19.7	[illegible]	[illegible]	[illegible]
11766	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Tried to get time signals at noon. Found that [illegible] had stopped at 0G 05E - which seemed fully [illegible] SW -27s (eclipse dot in lower NW)

Hour Angle End	Declination	Seeing	Ptg. Mag.		Temp	REMARKS
01 29W	+45 15	2-?	7.14	A0	3-3-3	[illegible]
01 40W	+15 32	3	7.26	A2	3-3-3	Still [illegible] (Dark on horizon) Velocity * (Supplement)
01 05W	+23 18	3+	6.9	B3s	3-3-3	MWC 310 [illegible]
01 15W	+37 54	3+	6.51	B5	4-4	Dimmer. Continued light haze * [illegible]
01 25W	+15 13	3+	6.9	B9sd	3-3-3	MWC 317 Haze worse?
00 43W	+26 23	3	5.9	B2Ib	34-4	MWC 321
00 54W	.	.	.	.	4-4	
01 06W	+14 14	3	6.51	A0	3-3-3	[illegible]
[illegible]	+26 16	3	7.23	G0	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
					[illegible]	
					[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
17760	HD 21[illegible]	03 [illegible]	+1[illegible]	[illegible]	[illegible]	[illegible]	+19.5	[illegible]	[illegible]	2.5
	"	"	"	"	"	"	"	[illegible]	[illegible]	
17771	HD 22[illegible]	03 28.5	+28 [illegible]	"	"	"	+11.5	[illegible]	[illegible]	
17772	HD 20[illegible]	03 [illegible]	+3 [illegible]	"	"	"	+19.[illegible]	01.20	[illegible]	
17773	HD 5[illegible]	03 [illegible]	+28 [illegible]	"	"	"	+19.[illegible]	01.15	01.31	1
17774	HD 4[illegible]	03 [illegible]	+35 [illegible]	"	"	"	+[illegible]	01.34	01.52	2
17775	HD 5[illegible]	03 [illegible]	+41 31	"	"	"	+19.4	01.55	02.16	3
17776	HD [illegible]	03 [illegible]	+40 45	"	"	"	+19A	02.16	02.36	4
17777	HD [illegible]	03 [illegible]	+50 [illegible]	"	"	"	+19.[illegible]	02.37	02.49	5
	"	"	"	"	"	"	"	[illegible]	[illegible]	6
17778	HD [illegible]	03 [illegible]	+37 [illegible]	"	"	"	+19.[illegible]	[illegible]	03.21	7
17779	HD [illegible]	03 [illegible]	+35 [illegible]	"	"	"	+19.4	[illegible]	03.38	8
17780	[illegible]	03 [illegible]	+32 [illegible]	"	"	"	+19.4	[illegible]	04.02	9
	[illegible]	[illegible]	[illegible]	"	"	"				1
	[illegible]	[illegible]	[illegible]	"	"	"				
	[illegible]	[illegible]	[illegible]	"	"	"				

[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	+ [illegible]	3-4	3.5	[illegible]	4-4	[illegible]
[illegible]	"	3-4	"	"	5	"
[illegible]	+ 28 25	3+	7.26	K0	3-3-3	Violet * (A0?)
[illegible]	+ [illegible]	3+	6.70	B5	3-3-3	Blue
00 03 W	+ 29 15	3+	7.23	G5	3-3-3	Violet * (A0)
00 21 W	+ [illegible]	3+	7.[illegible]	K0	3-3-3	Violet * (A0)
[illegible]	+ 41 4[illegible]	3+	6.4[illegible]	B2	4-4	Blue
03 [illegible] W	+ 4[illegible] 03	3	7.52	K0	3-3-3	[illegible] Telescope [illegible] work
[illegible]	+ 5[illegible] [illegible]	3	6.1	G4	4-4	Flame on ½.
[illegible]	"	"	"		4-4	"
[illegible]	+ [illegible]	3+	7.2[illegible]	K0	3-3-3	Violet * [illegible]
[illegible]	+ [illegible]	3+	7.07	G5	3-3-3	Violet * (A0)
01 [illegible]	+ [illegible]	3-4	7.1	F[illegible]	3-3-3	Flame on ½ [illegible]
			6.9	B5		[illegible] Flame on ½ [illegible]
			7.[illegible]			Blue
						Violet *

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	When [illegible]									
	Need to check up [illegible]									
	Decided to change 03·21									

...ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Used MgF on Mirror [illegible]
							4 plates exposed [illegible]
							4 holders loaded E 1090.0
							Note re developing:
							There are two plates to develop, to wit:
							(a) Plates 12749-12752, 12778, 12779 [illegible] in plate box
							(b) Plates 12751-12777, [illegible] in box in [illegible]
							[illegible] plate boxes. These are with the plate box in the
							drawer.
							[illegible] Four [illegible] with [illegible] in [illegible] [illegible]
							the drawer
							[illegible]

Date Monday Sept 16-17, 1946 H.A./W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
12780	MWC 307 HD 174856	18 47.7	-10 21	I-25	Σ103a-O	008	+23.5	19 07	20 17	1	
12781	MWC 320	19 41.3	+ 5 44	"	"	"	23.9	20 24	22 04	2	
12782	HD MWC 316	19 11.0	+27 46	"	"	"	24.1	22 08	22 20	3	
12783	MWC 371 HD 205060	21 27.7	42 16	"	"	"	24.1	22 25	22 45	4	
12784	MWC 347 HD 195592	20 27.2	43 59 ~~44 09~~	"	"	"	24.0	22 48	23 14	1	
12785	MWC 383 HD 207296	21 57.2	56 14	"	"	"	24.1	23 19	00 05	2	
12786	MWC 412 HD 223385	23 45.0	61 39	"	"	"	24.1	00 10	01 10	3	
12787	MWC 10 HD 6543	00 59.4	65 26	"	"	"	24.1	01 16	01 32	4	
12788	MWC 10 HD 7498	01 04 6	62 51	"	"	"	24.0	01 43	02 11	1	
12789	MWC 83 HD 12302	01 55.6	59 12	"	"	"	24.0	02 17	02 31	2	
12790	HD 14434	02 33.0	46 31	"	"	"	24.0	03 26	0336	3	
12791	MWC 58 HD 24534	03 07.9	48 19	"	"	"	24.0	03 43	0427	4	
12792	HD 24534	03 44.3	63 11	"	"	"	24.0	04 33	0525	1	

Flat Field

This day Lentzen replaced Dent metal Foyeault slide with one of fiber.

Set focus 23.44

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 0 50	−10 15	1	8.1	Bse 3,3,3	Be Prog.
W 1 44	+5 56	2	8.5	Bsne 3,3,3	" " field checked, though dec checks poor.
W 2 30	27 55	3	6.51	Bs 3,3,3	Bin.
W 0 40	42 31	3	7.1	Bs(n)e 3,3,3	Be prog
W 2 10	44 10	3	7.2	Bise 3,3,3	Be prog. poor dec checks. Star looks very red but no note re sp. type.
W 1 31	56 30	3	8.1	B(5)e 3,3,3	Be Prog. checked field
W 0 41	61 58	3	8.2	Bse 3,3,3	Be Prog checked field
W 0 01	65 44	3	7.1	Bsne 3,3,3	Be Prog.
W 0 08	69 07	3-	7.5	Bsse 3,3,3	Be Prog.
W 0 47	59 28	3	8.2	Bse 3,3,3	Be Prog. checked field.
W 2 16	46 48	3	6.47	Bs 3,6	Bin.
W 0 41	48 32	3	7.9	Bnse 3,3,3	Be Prog.
W 0 53	63 25	3-	8.1	Bse 3,3,3	Be Prog. checked field.
	E.T.B.			10/9	

Last night was not driving rain, something turned to be watching at

41

Tuesday Sept 17 W6 6H 12.3 SW -0?" WTC

Date Tuesday, September 17-18, 1946 Sh-H **Julian Day** 2432081

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						Sh				
12793	HD 164898	17 58 3	+45 21	I - 25	E-103a-O	008	+26 3	18 58	19 3[illegible]	2
12794	170429	18 26 4	+20 46	"	"	"	+26.2	19 35	20 22	3
	A									
12795	HD 183399	19 24.3	+23 14	"	"	008	+26.2	20 [illegible]	20.53	4
[illegible]	[illegible]	19 04.9	+30 08	"	"	"	+26.2	20.57	[illegible]	1
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	21.47	[illegible]	2
	[illegible]									
[illegible]	[illegible]	[illegible]	+26 21	"	"	"	+26.1	22.15	22.4[illegible]	3
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	+26.1	[illegible]	[illegible]	4
[illegible]	HD 208540	21 [illegible]	+25 31	"	"	"	+26.1	23.23	23.51	1
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	+26.1	23.54	00.26	2
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	3
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	4
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	+26.0	[illegible]	[illegible]	1
[illegible]	HD 5638	[illegible]	[illegible]	"	"	"	+25.9	02.56	03.10	2
	[illegible]									

Forms set 23.41

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 02 W	+415 23	1-2	7.44	A0	3-3-3	
01 21W	+20 50	2"	7.59	G8	3-3-3	Faint annual ends 19[40]-
						Reset Forms 23.38 I 00.02 (.03 low)
00 54W	+29 24	2"	7.49	K0	3-3-3	Velocity * (N.P.)
02 05W	+30 16	2	7.77	K5	3-3-3	Velocity * (N.P.) Good Answer (See Sheet for Comets)
01 13 W	+27 54	23	6.51	B5	3-3-3	
01 42 W	+25 24	2-3	7.71	K0	3 3 -3	
02 11W	+25 56	2-3	7.65	K5	3 3 3	"
01 51 W	+25 45	3"	7.59	K2	3 3 -3	"
02 15W	+24 01	3"	7.52	K0	3 3-3	
01 46W	+27 42	2-3	7.71	G5	3 3-3	
02 15W	+27 32	2 3	7.71	K0	3 3 -3	Forms * set from field checked Ambiguity
02 36W	+27 20	2 3	7.84	K1	3 3-3	
01 44W	+26 47	2-3	6.47	F2	3-3-3	
					In-D	

Date [illegible] **Julian Day** [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	"Object X"	[illegible]	[illegible]								
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NB - Check focusing slightly from side to side.

ing Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	00 38W	+ 50 22	3	6.6	F2	3-3-3	Cloudy
							[illegible]
							[illegible]
							[illegible]
	01 02W	+ 56 52	2	6.9	F5	3-3-3	[illegible]
	[illegible]	+ 51 [illegible]	1	7.35	A0	3-3-3	[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]
							[illegible]

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54-L

Date Wednesday Sept 18-19/46 **Julian Day** 2432082

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
12809	HD 167135	18 08.8	11 51	I-25	E-103a-O	Set .000		19 02	19 26	2	C 47
12810	" 168131	18 13.2	11 51	"	"	"	+27.3	19 34	[illegible]	3	
12811	HD 168995	18 58.3	+45 21	I-25	"	.008	+27.3	20 23	21 07	4	C 39
12812	HD 3264	0 36.7	+61 [illegible]	"	"	"	+27.3	21 21	[illegible]	1	
~~12813~~	HD 150210	11 11.0	+37 44	"	"	"	+27.3	21.54	21 [illegible]	—	
12814	"	"	"	"	"	"	+27.2	22.08	22 24	2	C 43
12815	HD 204642	21 34.9	+38 01	"	"	"	+27.1	22.32	22.51	3	
12816	HD 193369	20 14.7	+44.00	"	"	"	+27.1	22.48	[illegible]	4	
12816	HD 200411	21 01.7	+39 33	"	"	"	+27.0	23 22	00 00	1	
12817	HD 217050	22 52.7	48 09	"	"	"	+26.8	00 07	00 12	2	C 5
12818	" 218393	23 02.6	49 40	"	"	"	+26.8	00 20	00 40	3	10
12819	" 1312	00 41.0	30 24	"	"	"	+26.8	00 54	01 29	4	1 [illegible]
12820	" 1388	00 41.1	30 25	"	"	"	+26.8	01 30	02 02	1	1 [illegible]
12821	" 2264	01 25.1	28 54	"	"	"	+26.8	02 06	02 36	2	1 [illegible]
12822	" 13691	02 08.9	26 10	"	"	"	+26.8	02 43	03 39	3	2 [illegible]
12823	" 22269	03 33.0	27 16	"	"	"	+26.8	03 49	04 45	4	4 [illegible]

Focus set at e3.363?

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	0 47W	11 56	1-2	6.76	Ao 3-3-3	Velocity *
	0 [illegible]W	+11 54	1-2	6.97	B8 3-3-3	" "
	12 37W	+25 04	1-2	7.44	Ao 3 3-3	Binary
	0 17E	+48 18	2-3	7.14	B2 3-3	Binary Dumb bell E Finder too good to Measure here
	0 17W	+27 54	2-3	6.51	B 3 3-3	Binary
	0 [illegible] W	+17 [illegible]	3-3		3 3-3	
	31 [illegible]W	+23 21	3	7.54	A2 3-3-3	V [illegible]
	[illegible] 16W	+12 16	2-3	6.81	A 3 3 3	Binary
	2 20W	+31 [illegible]	2-3	7.56	Ao 3-3-3	Binary
	0 50W	+8 26	2-3	5.2	B3 or 3-3-3	B.E. Binary
	1 05W	+9 56	2-3	6 8	Ave 3 3-3	" "
	0 16W	+2 45	2-3	7.74	G5 3-3-3	N.P.
	0 50W	+30 44	3	774	G5 3-3-3	"
	0 46W	+29 10	3	774	Go 3-3-3	"
	1 01W	+26 26	3-2	8.14	G5 3-3-3	"
	0 45W	+27 27	32	8.19	Ko 3-3-3	"

cont'd 6

Date Wed Sept 1919/43 Sh-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
12824	HD 27483 Focus Test	04 15.2	13 38	D 23	E 103a-D O.T.B.	set .003	26.3	0449	0504 1	[illegible]

ing Time Z.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
5 04	019W	13 48	2-3	6.56	F4	3-3-3	Biring
						10/7	g
							9pc heating mats.
							2 plate htr. leads.

Date Thursday Sept 19-20, 1946 H.W. /W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
						Sec				
12825	HD 170829	18 26 4	+20 46	I-25	E-103a-O	.008	+26.9	19 47	20 51	2
12826	186216	19 11 0	+27 46	"	"	"	+26.8	20 53	21 17	3
12827	3264	00 30 7	+49 50	"	"	"	+26.8	21 27	22 03	4
12828	201578	20 59 2	+28 43	"	"	"	+26.8	22 09	22 58	1
12829	206374	21 36 6	+26 18	"	"	"	+26.6	23 05	00 00	2
12830	213947	22 29 7	+26 05	"	"	"	+26.6	00 04	01 22	3
12831	6525	01 01 1	+28 06	"	"	"	+26.5	01 27	02 55	4
12832	3638	00 32 0	+46 31	"	"	"	+26.1	03 00	03 30	
12833	12473N	02 38 1	+69 12	"	"	"	+26.0	03 36	4 36	2
12834	23038	04 41 1	+44 4	"	"	"	+26.6	04 40	05 12	3
		Focus Set						O.T.B.		

Test binocular by trouble with dec. slow motion stuck at end of run; tried E turn down
Focus + free motion by hand. H. — At one while trying to focus star is a little better, and having had near eye piece, I received a little shock that rolled me backward, and destroyed me out for a x-3 secs. Ate. W.
Focus set 33.38

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 58 W	+20 51	1	7.59	G8 3-3-3	Binary + light loops.
1 43 W	+27 55	1-2	6.51	B5 3-3-3	Binary
2 5 E	+49 18	1-2	7.14	B2 3-3-3	Binary
1 33 W	+28 57	1-2	7.56	K0 3-3-3	
1 58 W	+26 34	1-2	7.70	G5 3-3-3	
2 27 W	+26 22	0-1-2	8.07	K2 3-3-3	Light loops, RA-DISTANCE, [illegible]
1 28 W	+27 29	0-1	8.88	G5 3-3-3	[illegible]
[illegible]	+46 48	1	6.47	B2 3-2-3	Binary
	+57 30	1-0	7.36	A2 3-3-3	Binary Not Binary
1 03 W	+44 50	1	6.97	G5 3-3 3	Binary
				10/7	4 other [illegible] Binaries
		Finder Set 20 21, 1936			Generally clear at start. All night while late. Left at 10.00 EST after [illegible] change the H.L.

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Saturday September 21-22, 1946 Hd-Ww-Sh. 80 visitors (?) Clouds and light rain
Hd Sh ... slides and telescope

Date Sunday September 22-23, 1946 5h **Julian Day** 2432086

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12835	HD 164898	17 58.3	+45 21	I-25	E 103-a-O	Sht .008	+20.3	18-47	19-59	4
12836	HD 180316	19 11.0	+27 46	"	"	.008	+20.3	20-02	20 28	1
12837	HD 189671	19 56.1	+25 55	"	"	"	+20.3	20 31	21 15	2
12838	HD 195 509	20 26.7	+26 21	"	"	"	+20.3	21 18	23 31	3.5
	Focus Test									39
	Monday Sept 23, 1946 5h. Clouds and rain									

Clouds in morning, clearing after noon. Haze at Sunset. Sky thick on all horizons. E wind

Focus Set 23 47 ± 00 02 (·03 low)

Hour Angle End	Declination	Seeing	Ptg. Mag.		COMP	REMARKS
01 48W	+45 24	2-3	7·44	A0	3·3-3	Binary Thick haze, somewhat better after 19·20
01 03W	+27 54	2⁻	6·51	B5	3-3_3	Binary (Sec strong) light haze. Seeing variable
01 04W	+26 04	2-3	7·44	A0	3-3-3	Velocity * (N·P) Still some haze?
02 50W	+26 33	0-1	7·71	A0	3·3 3	Velocity * (N·P) Cont. mod. hill haze.? Wind NE 21-25

Outside Humidity Barom. 10·10

Better after 22.00

Dome dripping 22·15 humidity Nearing * often Cannot be seen on Slit- Vo wide high or light clouds Haze Dome 23·05 Dome dripping badly 23·20 * now Measurable 23·27. Haze as high light clouds moving in from N. N.E. to E. clearing

From zenith Field by 0h

N.

NB

Only 1 of manual heating coils in operation

[4 + 4 + 12] plus in dome
[Inlet Exit Air box]

Heat

	MC	SC	MTW	STW
Obs 24	-37·6	+10·3	+18°2	+10°1

Date Tuesday Sept 24-25 1946 HW 4 - 4 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	FA
12839	MWC 308 HD175863	18 52.3	59 53	I·25	E103aO	cct 008	21·0	19 12	19 52	1
12840	HD 180316	19 11.0	27 46	"	"	"	21·0	20 05	20 45	2
12841	MWC 332 HD 192445	20 09.8	36 02	"	"	"	21·0	20 52	21 44	3
12842	MWC 336 HD 193009	20 11.9	32 04	"	"	"	21·0	21 52	22 52	4
12843	MWC 346 HD 195407	20 26.0	36 39	"	"	"	20·9	22 58	00 38	1
12844	HD 3269	00 30.7	48 00	"	"	"	20·8	00 52		4
12847	HD 5639	00 53.0	46 31	"	"	"	20.8	03 10	03 48	1
12848	MWC 82 " 2G42D Jones Lick	04 05.7	41 33	"	"	"	20.8	03 48	04 15	2
					O.TB					

Focus set at 23.46

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
W 1 00	+ 53° 59'	0	6.9	B4e	3, 3, 3	Be prog.
W 1 27	+ 27° 55	0	6.51	B5	3, 3, 3	Binary
W 1 28	+ 36° 13'	0	7.1	B2ne	3, 3, 3	Be prog
W 2 23	+ 36° 17'	0	7.0	B0ne	3, 3, 3	" "
3 56W	+ 26° 53'	0	7.7	B3e	3, 3, 3	" " Clouding over from W. sta faint as 8th for last few mins. Binary Sky clearing again, back of clouds 10° in W. Photog 5 min after clouds! Plate checked
~~4 45~~	~~45~~	~~0~~	~~7.4~~	~~B2~~	~~3-3~~	
2 43W	46 45	0	6.47	B2	3-3-3	Binary ?
1 06W	42 01	0	7.6	B3nes	3-3-3	Be prog.
					10/7	

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Date Wednesday Sept. 25 26/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12846	H.D. 164898	17 53 3	45 21	I-25	E-103a-O	set .038	+18.9	19 25	20 35	1
12847	" 180316	19 11.0	27 46	"	"	"	18.9	20 39	21 15	2
12848	" MWC 342 198183	20 43.5	36 07	"	"	"	18.9	21 21	21 29	3
12849	" MWC 366 223374	21 16.7	61 25	"	"	"	18.8	21 36	22 02	4
12850	" 209682	21 52.9	64 52	"	"	"	18.8	22 08	22 22	1
12851	" 213902	22 30.2	29 27	"	"	"	18.8	22 43	00 21	2
	" AG +44 2738	00 25.1	44 01	"	"	"				3
12852	" 5638	00 53.0	+46 31	"	"	"	18.8	00 40	01 14	3
12853	" 8862	01 22 3	+43 32	"	"	"	18.8	01 17	01 39	4
12854	" 11188	01 44 9	+46 58	"	"	"	18.8	01 42	02 36	1
12855	" 16856	02 34.1	+43 07	"	"	"	18.8	02 40	03 07	2
	Focus Test									

Focus at 23.485?

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
	2 35W	45 25	0	7.44	Ao	3-3-3	Binary, Delay in Starting shutter (my fumbling!)
	2 02W	27 56	0	6.51	B5	3-3-3	" "
	0 40W	36 22	0-1	45	B6e	4½-4½	Be Proj.
	0 43W	61 41	0-1	6.6	B3e	3-3-3	" "
	0 28W	63 08	0-1	5.8	B3e	4½ 4½	" " MWC 381 Centered on meter after 4 exp.
	01 54W	29 44	0-1	8.16	K2	3-3-3	Velocity * NP. CLOUDS MOVING IN FROM W. (WAITED, RESET ON BRIGHTER STAR,
				7.77	K0		N.P. CLOUDS OVERHEAD, COULDNOT SEE STAR IN FINDER,
	0 14W	46 48	0	6.47	B2	3.2.3	BINARY STAR FAINT. Light clouds.
	0 16W	43 48	0-1	6.54	B7	3.3.3	BINARY
	0 [illegible]W	47 14	1-1	7.09	B8N	3.3.3	BINARY Heavy haze & light clouds over head, too hazy to see STAR CLOSE 02.56 02.57
	0 17W	43 20	0	6.72	A2	3 3 3	BINARY overhead, too hazy to see
		O.T.B.				10/B-2	Started manual control exp. till clouded over again.
		Shutters loaded					Seeing fair, but hazy, appears to set in there. waited till 0400, decided to close.

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H-W

Date Thursday September 26-27, 1945 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12856	HD 164898	17 58.3	+45 21	I-25	E-103a-O	S.T. .008	+20.0	18 46	19 27	3	
12857	170316	19 11.0	+27 41	"	"	"	+20.0	19 32	19 58	4	
12858	185267	19 33.2	+28 17	"	"	"	+20.0	20 01	21 23	1	
12859	193347	20 14.7	+26 40	"	"		+19.8	21 25	22 15	2	
12860	203700	21 53.0	+28 50	"	"	"	+19.8	22 47	00 11	3	
12861	213389	22 35.9	+48 51	"	"	"	+19.8	00 17	0143	4	
12862	5638	00 53.0	+46 31	"	"	"	+19.7	0147	0215	1	
12863	3264	00 30.7	+48 00	"	"	"	+19.7	0218	0346	2	
12864	23656	03 41.5	+31 54	"	"	"	+19.6	0350	0412	3	
12865	27183	04 15.2	+13 38	"	"	"	+19.5	0417	0443	4	
12866	27104	04 29.8	+19 41	"	"	"	+19.5	0446	0518	1	

Focus Test

Clouds over much of sky at sunset. Clearing towards dusk. Hazy at low altitudes.

Focus at 23.47

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 32 W	+45 25	2	7.94	A0	3-3-3	Faint light clouds intermittent.
	0 49 W	+27 54	2-1	6.51	B5	3-3-3	Rim.
	1 5 W	+28 24	1-2	7.93	G0	3-3-3	R. S. Rim. ½ of field 6' apart ✓
	2 32 W	+26 52	2	8.06	M0	3-3-3	
	2 20 W	+29 06	2-1-2	7.73	K5	3-3-3	
1143	3 20 W	+49.07	2-1-2	7.55	K1	3-3-3	Rim
1215	1 24 W	+46 47	1	6.47	B2	3-3-3	Binary.
1246	3 17 W	+48 18	1-0	7.14	B2	3-3-3	Binary. Third faint. IS THIS PLATE NUMBER 12364?
1	0 33 W	+32 05	0-1	6.65	F6	3-3-3	
1343	0 31 W	+13 18	1+	6.56	F4	3-3-3	
0518	0 51 W	+19 49	1+	7.06	F8	3-3-3	
		O.T.B.				10/7	3 holders loaded.

Date Friday Sept 27-28, 1946 Hd Wm / W **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12 867	HD 3269	00h 30m 7	+48°00'	I-25	E 103a-O	Set .008	21·7	18 58	19 48	2	4'37"
12 868	HD 164 838	17h 58m 3	+45°21'	"	"	"	21·6	20 04	20 54	3	2h 02"
12 869	HD 180 316	19h 11m 0	+27°46'	"	"	"	21·5	21 05	21 31	4	1h 26"
12 870	MWC 331 HD 192 044	20h 07·8	+26°11'	"	"	"	21·5	21 37	21 53	1	51"
12 871	MWC 981 HD 208 652	21h 52'3	+64°52'	"	"	"	21·5	22 03	22 18	2	25"
12 872	HD 207 313	21h 09'9	+30°33'	"	"	"	21·	22 34	22 [illegible]	3	55"
12 873	P Cygni HD 193 237	02 58·8	+38 27	"	"	"		00 04¾	00 05¼	4	—
								00 05½	[illegible]		
								00 07	00 09		—
12 874	P Cygni	"	"	"	"	"		00 11¾	00 12¼	1	
								00 14½	00 15½		
								00 16½	00 19½		
12 875	P Cygni	"	"	"	Process	"		00 25	00 30	2	
							21.6	00 33	00 43		
							21·6	00 49	01 05		
12 876	HD 5638	00 53.0	+46 31	"	E 103a-O	"	21·7	01 19	01 55	1	1.08W

Checked focussing plunger: IN
Focus at 23.48 -.02 = 23.46

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
48	4h37m E	48°19'N	0	7.14	B2	3-3-3	Binary
59	3h02m W	45°23'N	1	7.44	A0	3-3-3	Binary
3	2h26m W	27°54'N	1	6.51	B5	3-3-3	Binary
53	1h51m W	26°22'N	1	5.9	B3ne	3-3-3	Be
3	0h32m W	65°7'N	1	5.8	B3he	3-3-3	Be Haze
3	2h50m W	35°17'N	1	7.56	A0	3-3-3	Binary ↓
1	—		1	Est. 4.0	Mb	nil	set 1
	—					nil	" 5
	—					10	" 9
			1	"		10	set 1
						10	" 5
						10	" 9
			1	"	"	no filter 8-8	set 1
		38 39				8-8	" 5
						8-8	" 9
	1.08W	46 48	1-0	6.47	B2	FILTER IN 3-3-3.	~~Binary~~

Date ~~Fri.~~ Sept. 27-28-1946 Fri. Sat. W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12877	HD 3264	00 30.7	+7800	I-25	F 103a0	.008	+21.8	01 59	02 59	3	2 35 W
	~~LS 138 02 21.2 +6007~~			"	"	"				4	
12878	18473N	02 53.1	5917	"	"	"	21 8?	03 04	0406	1	1 19 W
12879	27483	04 15.2	+1338	"	"	"	21.4	04 10	0442	2	0 34 W
12880	29104	04 29 8	+1941	"	"	"	21.5	04 46	0516	3	0 53 W
12881	35189	05 17.9	+1636	"	"	"	21.6	05 20	0540	4	
	Focus Test										
	Saturday Sept 28-29, 1946						H-N				

...ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
159	2 35 W	+8 18	0	7.14	B2	3,-3 3	Hazy. Light clouds.
				661	F2		
406	1 18 W	59 29	0	7.35	A0	3. 3.3	"
442	0 34 W	13 48	0	6.56	F4	3,3 3	"
516	0.53 W	19 50	0-1	7.06	F8	3 3 3	"
540		16 43	0+	6.15	A15	3,3 3	"
	C.T.B.					10/7	
							+ bubbles loaded, 1 plate spotted still in sputter. 8 in open bar in fig.
							MC SC MTW STW
						Sep. 30	-42.4 +06.5 -0.2 -0.3
	About 30 visitors.			Heavy cloud			M15,
				Not			Cloudy during last half W.

Date Oct 1 Sept 30/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12882	H.D. P Persei 19058	02 58.8	38 27	I-25	E-103a-O	set 008	+11.2	00 07.35	00 11.35	1
	"	"	"	"	"	"		00 15	00 21	2 IE
12883	HD 5638	00 53.0	46 31	"	"	"	11.2	00 34	01 46	2 W

Tues. Oct. 1-2, 1946

Sunset was at 0100, clearing considerably, started hope fut. 0130-0145 heavy cumulus clouds on N.W & E, zenith clear. 0230-0300 Considerable haze & clouds overhead. Looks hopeless. W.

Focus set at 23.59

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS *focussing gear!
							Sky clouding over at sunset, mostly thick until 9.00, clearing with a violent wind, waited till wind died
0 11-35			0	4	Mb	9	set 1½ | Start delayed by trouble with*
0 8	2 21 E	38 40	0	"	"	9	set 8½ slipped in 4½ mins
1	1 10 W.	46 49.	0	6.47	Dz	3-3-3	Very few CUMULUS COMING FROM N. LOOKS BAD GETTING WORSE passing clouds, image very unsteady Upper frames moving badly. to clear a terminator closed up. 2 holders loaded. 1 spare + 1 dud box medium inspecting room

Date Wednesday Oct 2-3/46 L-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12854	HD 164908	17 59.3	45 21	I-25	E-103a-O	Set .008	+13.1	18 53	19 49	3	2 16W
12855	" 180316	19 11.0	27 46	"	"	"	+13.4	19 54	20 12	4	1 56W
12856	" 206385	21 36.7	29 31	"	"	"	+13.5	20 19	21 09	1	1 02W
12857	" 207740	21 46.1	28 18	"	"	"	+13.5	21 13	22 09	2	0 44W
12858	" MWC 409 225025	23 38.2	55 00	"	"	"	+13.4	22 19	22 53	3	0 14W
12859	" 223138	23 41.9	27 32	"	"	"	+13.4	22 59	23 33	4	0 46W
12860	" P Cygni 19058	02 05.3	38 27	"	"	"	+13.4	00 05.25	00 13.5	1	0 31E
12861	" 5638	00 53.0	46 31	"	"	"	+13 4	00 25	00 37	2	0 13W
12862	AG+02 7247	01 08.1	29 12					00 44		3 5	
				"	"	"	+13.4	00 52	01 12	39	0 18W
12863	AG+27 11751	01 22.7	+23 18	"	"	"	+13.4	01 25	01 25	4	1 01W
12864	AG+50 18450	02 52.9	+26 22	"	"	"	+13.4	02 28	02 28	1	1 00W
12865	MWC 79 24560	03 49.3	+44 38	"	"	"	+13.4	03 52	04 12	2	0 42W
12866	AG+27 30111	04 37.6	+28 30	"	"	"	+13.3	04 16	05 02	3	0 45W
12867	" 37366	05 53.0	+30 50				+13.3	05 05	05 30	4	0 47W

Focus Test

Focus set at 23.58

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
2 16W	45 23	0-1-2	7.44	Ao 3-3-3	Bit hazy seeing improving some haze
1 26W	27 54	2	6.51	B5 3-3-3	Hazy / Some things moving!
0 03E	30 07	2-3	8.05	K2 3-3-3	Velocity + NP YP 25
0 48W	28 33	3	8.20	G5 3-3-3	" " NP YP 25
0 41E	55 17	3	7.6	B,e 3-3-3	Be Burg.
0 42W	28 09	3	8.40	M0 3-3-3	Velocity + NP YP 25
2 21E	38 41	3	4.	M5 9	Flipper in 6 min.
0 09W	46 49	3	6.47	B2 3.3-3	Burg
					Tech spec δ.
0 39W	29 27	3	7.44	K0 3-3-3	NP YP 25 Velocity + flipper in 6 min
0 59W	25 34	3-2	8.93	G0 3-3-5	NP YP 25
0 100W	26 36	2-	8.79	K0 3-3-3	N.P. YP 25
0 48W	44 50	2	7.8	BEINE 3-3-3	Be? Shell.
0 48W	28 35	2	8.26	G5 3-3-5	YP 25
0 28W	30 55	2-3	7.27	B3 3-3-3	Hazy Shell. Improving
	C.T.B.			10/7	

Date Thursday Oct 3-4/46 Wm-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12898	HD 164 898	17h58m3	+14°52'	I-25	E103a-O	Set 0.008	20.0	1846	1940	1	2W11
12899	HD 180316	19h11.0	+27°46'	"	"	"	20.0	1948	2012	2	1"30
12900	HD 199375	20h51m7	+27°12'	"	"	"	20.0	2030	2116	3	0"56
12901	HD 200578	20h59.2	+28°43'	"	"	"	20.0	2123	2233	4	2'13
12902	HD 202573	21h11.6	+25°01'	"	"	"	20.0	2241	2351	1	3"2
12903	AC 14246 220-11	23425	+2501	"	"	"	19.9	0001	0105	2	5%
12904	" 0638	0320	+4631	"	"	"	19.8	0109	0133	3	1"9W
12905	AC 11849 " 12847	0401.5	+3551	"	"	"	19.8	0140	0204	4	1"35 N
12906	" 21618	0318.4	+0431	"	"	"	19.8	0312	0348	1	1"CO N
12907	" 27483	0415.2	+1338	"	"	"	19.8	0352	0438	2	0"8

Focus Test

Plunger checked: IN
Focus set at 23.48

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 W 11	+45°24'	1-0	7.44	AO 3-3-3	Binary ... some haze
	1 W 30	127°55'	1	6.51	B5 3-3-3	Binary
	0 W 54	27°25'	1	7.40	KO 3-3-3	R. Vel Had some trouble identifying *
	2 E 03	2°36'	1-0	7.56	KO 3-3-3	R. Vel
	3 E 03	25°15'	1-0	7.54	G5 3-3-3	R Vel.
	1 52 W	25 19	1-0	7.84	Ko 3-3-3	" Smoke, clouds around
	1 09 W	46 47	1-2	6.47	B2 3-3-3	Binary
	1 33 W	26 07	0-1-0	7.91	G5 3-3-3	Binary Coming from W.
	1 0D W	04 44	0	6.27	F8 3-3-3	Binary
	0 53	13 48	0	6.56	F4 3-3-3	Binary Standard for variable-star work
		O.T.B.			10/7	4 holders loaded, 6 single bars in dome 2 plates in each holder

There are 46 plates to be developed, 4 are in hinged box with emulsion 2 hinges.

Date Friday October 4-5, 1946 H-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						set				
12908	HD 164898	17 58.3	+45 21	I-25	E-103a-0	008	21.0	18 36	19 22	3
12909	180316	19 11.0	+27 46	"	"	"	21.1	19 24	19 42	4
12910	187614	19 45.8	+26 59	"	"	"	21.1	19 48	20 32	1
12911	200391	20 58.1	+27 24	"	"	"	21.1	20 34	21 48	2
12912	209813	22 10	+46 45	"	"	"	21.1	21 51	22 23	3
12913	211606	22 13.2	+26 26	"	"	"	21.1	22 26	23 16	4
12914	220289	23 17.5	+25 22	"	"	"	21.0	23 19	00 22	1
12915	5638	00 53.0	46 31	"	"	"	21.0	00 27	00 43	2
12916	10095	01 33.6	27 15	"	"	"	21.0	00 49	01 [illegible]	3
12917	14875	02 18.9	28 46	"	"	"	21.0	02 01	03 [illegible]	4
12918	MWC 19 24560	03 49.3	44 38	"	"	"	20.9	03 19	04 03	1
12919	38093	04 05.6	26 30	"	"	"	21.0	04 19	06 31	2
	Stein Test				O.T.B.					

Trans set 23.46

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 57W	+45 24	1-2	7.44	A0 3-3-3	Binary ← Reset Dec Micrometer
1 04W	+27 51	2	6 51	B5 3-3-3	Binary ✓ Mirror Astigmatic
1 19W	+26 56	2-1-2	7 44	G5 3-3-3	
1 23W	+27 36	2	8.12	G0 3-3-3	
56W	+46 59	3	7.52	K0 3-3-3	Binary
1 35W	+26 40	3-2	7 95	K5 3-3-3	
1 38W	+25 38	2	7 99	K2 3-3-3	N.P.
23W	+46 45	2-3	6.97	G2 3-3-3	Binary Seeing quite variable
1 03W	27 28	2	8.08	K0 3-3-3	N.P.
1 28W	28 09	2	8.21	K0 3-3-3	N.P.
0 53W	44 47	2	7.8	B3Ne 3-3-3	Be P.g.
1 09W	26 33	2 1	8.28	G5 3-3-3	N.P. Sch faint star of double
				10-7	

Hd. - W.

Date Saturday October 5-6, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12920	HD. 180316	19 11.0	+27 46	I-25	E 103a0	.008	21.8	22 07	23 07	3
	AG 14136, " 221364	23 26.5	+28 07	"	"	"		23 14		I 4/5
	"							23 20		4
12921	"							23 34	00 18	4
12922	" 5638	00 53.0	+46 31	"	"	"	21.8	00 42	00 56	1
12923	AG 721 " 7426	01 09.3	+25 54	"	"	"	21.8	00 40	01 20	2
12924	NWC 23 " 12302	01 55.6	+59 12	"	"	"	21.8	01 24	02 14	3
12925	AG [illegible] 189 24	02 37.6	+27 11	"	"	"	21.7	02 25	03 11	4
12926	NWC 76 23093	03 44.3	+63 11	"	"	"	21.7	03 26	04 26	1
12927	AG [illegible] 32 [illegible]	05 00.9	+26 02	"	"	"	21.7	04 32	05 38	2
	N 0054	05 51.6								3
	Sun Set									4

Sat about 150 Visitors Hd showed Ring Neb, moon; Horwood on 4"
cleaned focus plunger - in 72
Focus set 23.47-.02

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
3 07 3	4 34W	27 54	0	6.51	B5	3-3-3	
				7.26	Ko	3-	THOUGHT I HAD SET ON WRONG * BUT APPARENTLY NOT. DEC. STILL SAME
		23 21	0	"	"	3-	
0 17 4	1 30W	"	0-1-2	"	"	3-3-3	
3 36	0 20W	46 44	3	6.47	B3	3-3-3	
3 53	0 48W	26 08	3	8.00	Ko	3-3-3	
3 14	0 37W	59 24	3-2	8.2	B3e	3-3-3	Look Sharp
1..	0 51W	27 20	3	8.22	Ko	3-3-3	done wonderful Lum, Hind like [illegible]
2..	1 30W	63 18	3-3	8.1	B3e	3-3 3	DE PROG FIELD CHECKED HAD SOME TROUBLE [illegible] done wonderful Lum.
3 38	1 44W	28 55	3-2	8.51	A0	3-3-3	
		E.F.B				10/7	+ Ladder leaded, [illegible]
							* Note in book not to be spotted

Date Sunday Oct. 6-7, 1946 H-N-L **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
						S.F					
12928	HD 164899	17 59.3	+45 21	I-25	F-1	.008	24.3	18 27	19 12	3	
12929	180316	19 11.0	+27 46	"	"	"	24.4	19 18	19 34	4	
12930	182617	19 20.4	+29 22	"	"	"	24.6	19 37	20 31	1	
12931	195967	20 29.3	+29 11	"	"	"	24.5	20 32	21 32	2	
12932	203792	21 19.0	+29 32	"	"	"	24.4	21 34	22 34	3	
12933	214458	22 33.2	+27 21	"	"	"	24.4	22 39	23 40	4	
12934	224085	23 49.9	+28 06	"	"	"	24.3	23 54	00 58	1	
12935	10863	01 41.0	30 19	"	"	"	24.3	01 03	02 17	2	
12936	17190	02 49.9	23 15	"	"	"	24.3	02 22	03 41	3	
12937	25296	03 56.1	27 52	"	"	"	24.3	03 48	04 41	4	
12938	31956	04 37.1	29 10	"	"	"	24.3	04 48	05 36	1	
	Sun. Sun										

Dome temp 74° F.

From set 23.42

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 5[illegible] W	+45 21	1-2	7.44	A0 3-3-3	⟵ DOME TURNING N.G.
	1 04 W)	+27 52	2-3	6 51	[illegible] 3-3-3	[illegible]
	1 52 W	+[illegible] 26	3	8.22	K0 3-3-3	AG 25.
	1 44 W	+29 19	3-2	8.23	K5 3-3-3	AG 25
	1 56 W	+29 33	3	8.30	G0 3-3-3	AG 25 — {Test Exp. Meteor Camera X 21[illegible]-22[illegible]; 21[illegible]-22[illegible], 22[illegible]-22[illegible] Draco – α IFA + 2½ lum D61a. 6[illegible]
	1 38 W	+29 38	2-3	8.26	K0 3-3-3	AG 25
	1 30 W	+28 19	2-3	8.12	K0 3-3-3	AG [illegible] — {Test Exp. Meteor Camera W 01[illegible]-01[illegible] [illegible] region
	1 17 W	30 32	3-2	8.30	G0 3-3-3	AG [illegible]
	1 45 W	25 24	2	8 33	K0 3-3-3	AG [illegible]
	1 33 W	27 56	2-3	8.01	G5 3-3-3	AG [illegible]
	0 42 W	29 09	3	7.56	K0 3-3-3	AG [illegible]
					10-7	

Date Sunday Oct 7-8, 1946 L.W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12939	MWC. 310 H.D. 177648	19 01.5	23 11	I-25	E-103a0	set .008	24.9	18 45	[illegible]	2	
12940	MWC 325 H.D. 217543	22 56.3	38 10	"	"	"	24.7	20 03	20 43	3	
12941	HD 213177	22 24.5	29 18	"	"	"	24.7	20 53	22 5[illegible]	4	
12942	HD. 222317	23 34.4	27 41	"	"	"	24.5	22 37	0017	1	
12943	HD 5638	00 53.0	+46 31	"	"	"	24.5	00 22	00[illegible]	2	
12944	HD MWC 13 9155	01 24.6	+62 51	"	"	"	24.4	00 57	0211	3	
12945	HD 15473N	02 53.1	+59 17	"	"	"	24.4	02 15	0321	4	
12946	HD MWC 76 13083	03 44.3	+63 11	"	"	"	24.4	03 25	0507	1	
12947	HD MWC 139 4+637	06 17.7	+15 09	"	"	"	24.4	05 14	0550	2	
	Focus Test									3	

Sun 1946 Oct 8-9

RASC visited observatory; about 130 persons viewed moon through 4" through afternoon.

Focus set at 23.405?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp.	REMARKS
	1 39W	23 14	O	6.9	B3e	3-3-3	Be Prg. Scattered light clouds.
	1 29E	38 24	O	6.4	B5e	3-3-3	" O more light cloud.
	1 13W	23 23	O	8.07	Ao	3-3-3	NP Thin haze
	1 27W	27 36	O	7.47	Go	3-3-3	NP
	044W	46 45	O	6.47	B2	3-3-3	Binary
	1 30W	63 04	O	7.5	B5e	3-3-3	Be prg. Ryd. fog bands, light haze, moving from N.
	1 12W	39 23	O	7.35	Ao	3-3-3	Binary Ryd. fog banks in N. to keep away from
	2 06W	63 18	O-	8.1	B3e	3-3-3	Be-Ha Spectroscopic binary, velocity const.
	2 17W	15 07	O	7.7	B3e	3-3-3	Binary
		O.T.3				10/7	
							4 plates taken tonight.
							Changed at 9:15 min for meteor watch.
							Ot a [illegible] 36 [illegible] +TY +03

Date Thursday Oct: 10-11, 1946 Wm. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12948-A	HD 10589	01^h38^m2	$+31°03'$	1-25	I103a-O	SLT 008		23 00		3
	1946 Oct. 12 12 Saturday. N									
	clear no visitors									

FOCUS SET AT 23.56 -.02 = 23.54

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
			1	7.20	G5	3-	Binary [illegible] coming up @ 2310, @ 2315 & [illegible] on slit 2330 COMPLETELY CLOUDY!
							PH #3 Still has this plate in it, because I didn't know what to do with it.
							No plate holders loaded (defective emulsion, remaining plates "chucked".)

Date Sat. Oct. 12-13/46 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12948	HD 11188	01 44.9	+46 58	1-20	103a0	.028	+09.5	00 09	01 55	1
12949	13138	02 21.2	50 07	"	"	"	09.5	01 59	02 31	2
12950	23158	03 43.1	44 40	"	"	"	09.5	02 36	03 26	3
12951	29104	04 29.8	13 41	"	"	"	09.4	03 30	04 17	4
12952	36154	05 26.9	36 —	"	"	"	09.4	04 21	04 55	1
	AD 9417 H.J. 1768	06 00	23 03	—	"	"	09.4	04 59	0	2
12953	24251	04 15.1	30 01	"	"	"	09.4	05 13	05 53	2
	Focus Test									2
	Wrong star?									

Began all day observing smoke last at 2300
Grade up CC15, mostly clouds in E+W, zenith clear.
Cleared over suddenly, united.

Shutter off
focus 23.64

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	1 14 W	47 11	0	7.09	B8m	3-3-3	(two illegible words) Line
2231	1 14 W	50 19	0	6.61	Fz	3-3-3	Line
[illegible]	0 47 W	44 47	0	6.57	Go	3-3-3	Several passing clouds! the Sun,
[illegible]	0 54 W	19 46	0	7.06	F8	3-3-3	
[illegible]	0 33	32 45	0	6.56	A2	3-3-3	
[illegible]		27 26	0	8.61	Ao	3-	Analyzed this sp. to long for time left.
[illegible]		30 01	0	7.06	A2	3-3-3	
		O.T.B.		10/7			2 letters started, 4 blots and line is done. Not so much.

Date Sun Oct 13-14, 1946 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
12954	MWC 278 HD164284	17 55.3	+ 4 22	I-25	E103a O	008	+ 10.1	18 18	18 28	3
								18 28	18 31	
								18 31	18 37	
12955	MWC 292 HD168757	18 19.3	25 01	"	"	"	+ 10.2	18 42	19 24	4
12956	HD 189671	19 56.1	25 55	"	"	"	+ 10.2	19 28	20 18	1
12957	HD 200578	20 59.2	28 43	"	"	"	+ 10.1	20 21	21 21	2
12958	HD 211550	22 12.8	25 53	"	"	"	+ 10.1	21 24	22 14	3
12959	MWC 343 HD 209296	21 57.2	56 14	"	"	"	+ 10.1	22 18	23 20	4
12960	HD 1406	00 13.1	29 49	"	"	"	+ 10.1	23 25	00 23	1
	Focus Test									

Focus plunger in

Focus 23.64 – .02

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
		+4 21	1	4.8	Bsc	3, 6.	Be Prog Set 5
						9.	8 Set 1
	W 1 50					9.	Set 9.
	W 2 15	25 00	1	6.9	Bsc	3, 3, 3	Be Prog.
	W 1 30	26 01	1-3	7.44	Ko	3, 3, 3	Vel. Prog.
	W 1 30	28 54	2-1	7 56	Ko	3, 3, 3	" "
	W 1 09	26 06	2	7.74	Ko	3, 3, 3	" "
	W 2 32	56 27	3	8.1	Bsc	3, 3, 3	Be Prog. Checked field.
	W 1 18	30 05	3.	8.23	Ko	3, 3, 3	Vel Prog. Clouds at 0019 Thickening right of.
			OT B.			10/7	
							3 plates loaded 2 boxes in done.
							No hail on mirror.

Date Jan Cadiz 14 1946 W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
12961	HD 26226	04 04 15	+31 04	1-35	Kodak		11.2	02 24	02 38		2
12962	23831	04 31	+44 40	"	"	"	11.2	02 31	02 54		3
12963	AG 2001 HD 26322	04 047	+26 13	"	"	"	11.2	01 59	03 43		4
12964	31763	04 54	+21 10	"	"	"	11.2	03 47	04 26		1
	Fiducial Field										2
											3

Cloudy all day, clearing around 0100.

focus 23.62 ± .00

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 09 W	+ 32 02	3	6.65	F6	3-3-3	Binary
	0 23 W	+ 44 47	3	6.57	G0	3-3-3	Binary
	0 52 W	+ 26 30	3+	5.83 7.93	Fo G0	3-3-3	is very bright for 8.13 m.
	0 53 W	+ 25 02	3	8.64	G5	3-3-3	
		C.F.B.				10/7	4 plates loaded, broke no. 4 - waited for a little getting worse. Final exposure

Tues.
Date Oct 15-16, 1946 Wm-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
12965	HD 196 866	20h 35.0	+25° 43'	1.25	E 103a O	0.07 0.0E	15.7	1850	1950	3
12966	HD 206 374	21h 36.6	+26° 18'	"	"	"	15.7	1956	2052	4
12967	HD 208 700	21h 53.0	+25° 50'	"	"	"	+15.7	2057	2157	1
12968	HD 211 606	22h 13.2	+26° 26	"	"	"	+15.7	2214	2326	2
12969	HD 222 317	23h 34.4	+27° 41'	"	"	"	15.7	2332	0035	3
12970	[illegible]	[illegible]	46 38	"	"	"	15.6	0137	0231	4
12971	16 [illegible]	02 37.1	43 07	"	"	"	15.7	0134	0222	1
12972	23 [illegible]	03 11.5	31 04	"	"	"	15.7	0226	0316	2
12973	32 [illegible]	03 30.7	45 [illegible]	"	"	"	15.7	0253	0343	3
12974	[illegible]	[illegible]	22 [illegible]	"	"	"	15.6	0358	0449	4
12975	AG 2 [illegible] [illegible]	05 35 5	29 13	"	"	"	15.5	0424	0515	1
	Focus Check									
12976	[illegible]	[illegible]	[illegible]				15.5	0517	0551	2

Nov. 16 to Oct 16-17 Cloudy with snow

Monday Oct. 17-18 Cloudy with rain.

FILTERS IN

FOCUS SET 23.57-.02=23.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0h 31	+25° 53'	1	7.65	K5	3-3-3	RAD. VEL. * Had trouble identifying field; some Haze
	0h 32	+26° 30'	1-2	7.70	G5	3-3-3	RAD. VEL. *
	1h 20	+20° 09'	2-1	7.93	K5	3-3-3	RAD VEL * SET AT 8 TO avoid possible overlap with 1st exposure on left (setting)
	2h 30	+15° 56'	1-2	7.95	K5	3-3-3	RAD VEL *
	2h 17m	+27 56	1-0	7.47	G0	3-3-3	RAD VEL * (#2) plates in large black box.
	1 12	+47 09	0	7.09	B8n	3-3-3	Binary (#2) plates in small box. Emulsion change
	1 01 W	+73 18	0-1	6.72	A2	3-3-3	Image quite elongated Low in sky
	0 21 W	+32 02	1-2	6.65	F0	3-3-3	Low.
	4 04 W	+46 14	1-0	7.14	A3	3-3-3	Low.
	0 22 W	+22 13	2	6.22	A2	3- 6	
	0 W 21	+24 14	1	8.70	G0	3- 0 10/7	Selected field. Star was OK
	0h 25m	+21° 17	0	5.80	B7	3-3-3	Low. Too close to bright star

Oct. 13 HC −5.3 ZC +0.4 Wind +2.0 STW +0.7

Date Sunday Oct 17-18 1931 H.N.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
12977	HD 218660	23 04.7	+29 08	2-135	E 103a-O	0.23	+7.0	21 48	22 42	3	
12978	224895	23 56.5	+27 52	"	"	"	+7.0	22 44	23 04	4	
12979	1B695	01 33.6	27 15	"	"	"	+6.4	23 35	01 08	1	
12980	19018	02 53.5	38 27	"	"	"	6.6	01 16	01 18	2	
	"	"	"	"	"	"	6.6	01 20	01 24		
	"	"	"	"	"	"	6.6	01 27	01 35		
12981	22403	03 31.2	25 40	"	"	"	6.6	01 44	02 11	3	
12982	26700	04 09	29 35	"	"	"	6.4	02 56	04 18	4	
12983	46277	06 27.4	28 03	"	"	"	6.4	04 24	04 52	1	
	Some Sun				OTB						

In afternoon about 200 meter - [illegible]

Set on 15th shown during early [illegible]

Sunset 23 17

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 07 W	+27 22	1	7.52	K0	3-3-3	AG 25 Sun shaded at beginning with [illegible]
	1 26 W	+28 05	1-2	7.95	K0	3-3-3	AG 25 ✓ Sun shaded at 28 05
	1 [illegible] W	27 28	1-2	8.09	K0	3-3-3	AG 25
	0 13 E	28 41	1-2	4	M6	9	
	0 07 E	"	1-2	"	"	9	Slipper in 3 min.
	0 [illegible] W	"	1-2	"	"	9	Slipper in 6 min.
	0 21 W	28 48	1-2	7.92	G0	3-3-3	AG 25
	1 36 W	29 15	1-2	8.21	K0	3-3-3	AG 25
	0 [illegible] W	29 00	1-2	8.35	K0	3-3-3	AG 25
						10-9	

Date ~~Jan~~ Sat Oct 19.20.1946 Hd.-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
12984	MWC 394 HD 217050	22 52.7	48 09	I-25"	E103a-O	.08	+ 8.2	23 00	23 08
12985	MWC 397 HD 218393	23 02.6	49 00	"	"	"	+ 8.3	23 12	23 42
12986	MWC 407 HD 224559	23 53.8	45 52	"	"	"	+ 8.3	23 45	00 21
12987	AG 708 7299	01 08.1	39 18	"	"	"	+ 8.4	00 15	01 00
12988	AG 1327 15236	22.3	39 26	"	"	"	+ 8.4	01 05	01 54
12989	10588	01 38.2	51 48	"	"	"	+ 8.4	02 04	02 46
12990	MWC 82 26+20			"	"	"	+ 8.4	02 55	03 36
12991	35238	05 18.2	31 08	"	"	"	+ 8.4	04 00	04 42
12992	44250	06 05.7	30 01	"	"	"	+ 8.4	04 46	05 30
12993	6.295	07 32.5	32 14	"	"	"	+ 8.4	05 34	06 00
	Hamm Test								

Focus set 23.66 - .02
checked focus plunger - in.
Abt 45 visitors, shown M 15 Third Dumb-bell nebula but N.G.
to showed doubles etc with 4" + 2".

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
W 1 48	48 24	1	5.2	Bzne 3, 3, 3	Had trouble focusing. Finally OK by back & forcing on belt. Be prog.
W 2 12	49 54	1	6.8	Ave 3, 3, 3	
1 52 W		1	6.5	Bzne 3, 3, -3	
1 24 W	[illegible]	1	7.44	K o 3 - 3 - 3	AC 22
1 09 W	[illegible]	1	7.55	G o 3 - 3 - 3	AC 22
2 41 W	[illegible]	1	7.20	[illegible] 3 - 3 - 3	[illegible]
1 33 W	[illegible]	1	7.6	Bzne 3 - 3 - 3	[illegible]
0 57 W	[illegible]	1	7.37	K o 3 - 3 - 3	[illegible]
0 44 W	[illegible]	1	7.06	A o 3 - 3 - 3	[illegible]
0 00	[illegible]	1 - 0	6.48	F - 3 - 3 - 3	[illegible] Clouds
	O.T. 2.			10/7	
					Added new bushing to plunger

Date 1946 Oct. 20-21 Sunday N-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
	MWC 317					wet					
12994	HD 183143	19 23.0	+18 05	1-25	E103a O	0.008	+07.3	18 09	18 39	3	
	MWC 332										
12995	HD 192443	20 09.5	+36 02	"	"	"		19 03	19 31	4	
	MWC 371										
12996	HD 205060	21 27.5	+42 16	"	"	"	+07.6	19	19 11	1	
12997	HD 210076	22 05.4	+26 08	"	"	"	+07.5	22	22 01	5	
12998	HD 212791	22 35.0	+25 17	"	"	"	+07.2	22	22	2	
12999	HD 3990	00 39.7	+25 47	"	"	"	+07.4	23 30	00 00	4	
13000	HD 10588	01 38.2	+21 43	"	"	"	+07.4	01 45	01 45	1	
	AG 2606	05 39.6	26 13	"	"	"	+07.4	03			

Grism 1st 22-26 (23.68 - C.02)

Clusters from plan position.

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1 12 W	+ 18 05	0-1	6.9	Based 3-3-3	Be guy Get thing
1 7 W	+ 36 12	0-1	7.1	Based 3-3-3	
0 52 W	+ 42 38	0-1	7.1	Based 3-3-3	wing needle
1 35 W	+ 24 21	0-1	7.83	Ko 3-3-3	AG 25
1 12 W	+ 14 39	0-1	7.70	Ko 3-3-3	AG 25
1 37 W	+ 16 02	1-2	7.27	Ko 3-3-3	AG 25 Crowded on 10, mag check
0 35 W	+ 31 59	2	7.20	Ko 3-3-3	diary Cloudy, thin broken clouds
	+ 5 19	2	8.30	No	Some of star saddles 1 sp elsewhere Over 1 spike started but star Shifted on 6 Ld.

Date Friday Oct 21-22 1946 L-T-W **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Ang End
13001	HD. 167	00 01.4	28 00	I 25	E-103a-O	Set 208	+9.8	22 12	22 44	3	
13002	HD 1633	00 15.5	25 56	"	"	"	+10.0	22 50	23 34	4	
13003	AG 977	01 42.0	27 59	"	"	"	+9.9	23 53	00 05	1	
13004	HD 10582	01 39.2	31 43	"	"	"	+10.0	01 03	01 23	2	
13005	AG 1399 19822	03 06.2	29 26	"	"	"	+10.0	01 29	03 16	3	
13006	AG 2301 43043	03 01.8	26 15	"	"	"	+10.0	03 19	04 56	4	
13007	AG 3098 43383	05 16.8	25 31	"	"	"	+09.9	04 30	05 [illegible]	1	
	Second Set									2	
										3	
										4	

Four set at 23.62

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.		REMARKS
						Partly all sky, thick trees south. Found nice portable elevation. Photo still to develop.
0 23 W	23 13	2-3	7.62	Ko	3-3-3	AG 25
1 19 W	26 11	2-3	8.43	Ko	3-3-3	AG 25
0 [illegible] W	28 12	3	8.40	G5	3-3-3	AG 25
0 [illegible] W	31 35	3	7.20	G5	4½-4½	Binary
1 51 W	29 36	3	8.93	G5	3-3-3	AG 25
1 04 W	26 15	3	8.50	G5	3-3-3	AG 25
1 35 W	24 30	3	8.77	G0	3-3-3	AG 25
	OTB				10/7	4 holders loaded, 7 plates in all

Date Tues, Oct 23/23 W. W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
13 008	NWC 336 HD 153 068	16h 12m 0	+32° 04'	I-25	[illegible]	[illegible]	+12°7 C	16 52	19 22	2	
13 009	NWC 343 HD 154 735	16h 20m 0	+37° 16'	"	"	"	+12°7	[illegible]	19 18	3	
13 010	NWC 346 HD 206 732	21h 33m 3	+57° 17'	"	"	"	+12°6	19 53	20 42	4	
13 011	HD 225 050	23h 56m 3	+72° 36'	"	"	"	+12°6	[illegible]	21 12	1	
13 012	NC 14 180 HD 225 033	23h 36m 0	+30° 07'	"	"	"	+12°6	21 47	[illegible]	2	
13 013	NC 167 HD 4550	00h 47m 4	+23° 49'	"	"	"	+12°6	23 40	00 30	3	
13 014	HD 10568	01h 38m 2	31 43	"	"	"	+12°6	00 37	01 33	4	
										1	
										2	
										3	
										4	
13 015	HD [illegible]	06h 30m 2	[illegible]	I-25	[illegible]	.004	+13°4	01 53	05 27	1	
	Focal Set										

Found [illegible] at 4h 58
Focus 18 AVG 14
Heat Trip on Rge - 1' to Dec

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0h 50	+31° 2	0	7.0	Rge 3-3-3	Be-Star
	1h 14	+31° 1	-5	5 7	Rge 3-3-3	" "
	0h 54	+57° 22	1-0	7.0	[illegible] 3-3-3	
	0h 05	+28° 52	0-1	7.58	[illegible] 3-3-3	
	1h 45	+30° 21	0	7.58	[illegible] 3-3-3	
	1 33 M	25 55	1 1	7.32	AO 3-3-3	
	1 40 M	3 55	0	7.20	G5 3-3-3	* VISIBLE AT TIMES CONTINUOUSLY. (Used unmounted disc, dropping from 7.58) BINNY. Used at end a run. can it back & reset on * by low clouds, shutting in under 1/2 at last till 0h 33 recorded. Clear up thick then veiled. {Reset plate & markings checked. Loaded. Put on Indian} Clear up again. Unloaded
	0 40 M	2 8 19 OTB	0	5 80	B7 3-3-3 10/7	

Date Wednesday Oct 23/24 1946 L-Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
13016	HD. 4636	00 43.8	28 11	I 25	E-103a-D	Set .005	+13.8	22 25	00 23	2
13017	3264 MVIC 79	00 50.7	48 01	"	"	"	+13.9	00 30	0200	3
13018	21 56 AC 3474	03 49.3	44 31	"	"	"	+14.0	03 05	0332	4
13019	37 95 AC 3494	05 37.1	29 10	"	"	"	+14.0	03 36	0448	1
13020	" 47 30	06 39.0	22 49	"	"	"	+13.9	04 52	0610	2
	Focus Test									2

Cloudy at sunset and in early evening. Shg thinning late. Closed at 23.57

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
1 30 W	23 29	0-1	7.77	Ko 3-3-3	AG 25 Hyp. Expt. Lower
3 18 W	48 15	0-1	7.14	Bz 3-3-3	Binary, mech. bge
1 30 W	44 45	0	7.8	Blelna 3-3-3	double jet. Bge Hyp.
1 00 W	29 48	0-1	7.56	Ko 3-3-3	AG 25 double jet
1 24 W	29 49	1	7.91	Ko 3-3-3	AG 25 double jet 1
	C T B			10/7	2 letters loaded. Shutter misses 5 plates in time.

99

Date Tuesday, October 25, 1932, Wm-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13021	MD 193+19	20h54m7	+19°27'	1-35	Eastman 40	20T .008	45°F	1753	1833 3	1.0
13022	MD 201+38	21h02m0	+38°23'	"	"	"	43°F	1846	1941 4	0.35
	NGC 7023									
13023	MD +67°1930 & 332	+67°17'	1-35	Eastman 40	20T .008	45°F	0444	0530	1	
	Focus Test									

FOCUS SET AT 23.56 (23.54 - 0.2)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0h 10	+19° 12'	0	6.81	A5	3-3-3	Cloudy, Hazy [illegible] Dome [illegible]
	0h 35	+63° 08'	0	7.90	A5	3-3-3	" " [illegible] Low Lying St. Clouds in S.W. — Haze at 2m Below it
							APS Loaded
							16 Unexp'd Plates in Cassette
							Heat ON
							Clear overhead with strong S.W. wind. no clouds — S.W. haze [illegible]
							[illegible] of haze reflecting over. focus 23.56
	0 3h	+29 49	0	7.91	K0	3-3-3	A.C.R.S. checked at [illegible]
		D.T. 13.				10/7	3 holders loaded. Heat on.

	MT	SC	MTW	STW
Oct. 25	+64.2	+13.5	+11.0	+0.2

Date Sunday Oct 20-21 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13024	HD. 37800	05 36.1	29 48	I-25	E103aD	Set 0.53	+11.9	03.10	04 10	2
13025	" 19639	05 03.3	27 47	"	"	"	+11.3	04 49	05 10	3.
	Focus Test					OTB				

Sun set at 22.59

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		Comp	REMARKS
							Fair all day and early evening cloudy until about 12.15
	1.06 W	23 +3	0	7.77	Go	3-3-3	AG 25
	1.37 W	21 42	0	7.77	No	3-3-3	AG 25
						10-7	

Date Sat Oct 26-27, 1946 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13026	mwc 397 HD 218393	23 02.6	49 40	I-25	E103aO	008	+16.2	21 52	22 24	4
13027	HD 166 ~~167~~	00 01.4	28 ~~00~~ 29	"	"	"	+15.2	22 29	23 23	1
13028	HD 167	00 01 4	28 00	"	"	"	+15.2	23 27	00 17	2
13029	10588	01 38.2	31 43	"	"	"	+15.2	00 20	00 46	3
13030	MWC 29 13681	02 08.1	54 04	"	"	"	+15.4	00 55	02 03	1
13031	MWC 83 26406	04 10.1	45 58	"	"	"	+15.5	02 10	03 14	2
13032	AG+23 491 33553	05 06.2	24 21	"	"	"	+15.6	03 20	04 04	3
13033	HR 1777 21994	06 08.2	27 13	"	"	"	+15.6	[illegible]	05 [illegible]	4
13034	AG+24 531 36176	07 10.9	26 52	"	"	"	+15.6	00 42	06 10	1
	Cloud Test									

about 90 visitors. Showed M15 with 74 Ironwood
showed clusters etc with 4"

Jones · 23.59-.02 checked plunger - on

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	W 1 21	49 52	1	6.8	Ave	3,3,3	Be Prog
[illegible]	W 1 21	28 41	1	7.20	Ko	3,3,3	Wrong star thro misreading dec. in semi darkness by one set of lights
00 17 2	2 16W	28 14	1-2	7.62	Ko	3,3,3	R.V. Prog.
[illegible]	108W.	31 56	2-3	7.20	G5	3.-3-3	Binary
[illegible]	1 55 W.	5+16	3	8.6	Bone	3-3-3	Be Prog-have a little difficulty in checking field
[illegible]	105W	4604	3	8.6	Bone	3-3-3	Be Prog BRASS TOOL Eyepiece.
[illegible]	058 W	26 22	3	8.11	G5	3-3-3	AG 25
[illegible]	135W	27 11	3	7.57	Ko	3-3-3	AG 25
0116	100W.	26 46	3	7.24	G5	3-3-3	4 HLDRS. LOADED. HEAT ON M. 4 plates in dewar.
		OTB				10/7	

Date [illegible] October 21-28 Sunday N - L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
13035	HD 193349	20 14.7	+14 04	1-25	E 103a O	Det 0.008	+18.1	19 14	19.54	1	1.43 W
13036	M W C 376 HD 206773	21 39.3	+57 17	"	"	"	+18.2	20.05	20 53	2	1.17 W
13037	HD 213399	22 25.9	+48 51	"	"	"	+18.1	20 58	21 58	3	1.33 W
13038	HD 223069	23 48.1	+25 27	"	"	"	+18.6	22 03	23.53	4	2.08 W
13039	HD 6767	01 21.2	+26 43	"	"	"	+17.9	23 57	01 19	1	2.01 W
13040	23257	03 39.6	27 37	"	"	"	+17.9	01 28	02 38	2	1.03 W
	31 162	04 53.5	23 47								
13041	32 287	04 57.8	24 32	"	"	"	+17.8	23 50	04 50	3	1.57 E
	Focus Test					CTS.					

Monday Oct 22 - Cloudy & rainy all day. Developed a few plates but very poor. Intervalometer not working properly. Tried to focus Mee Telescope.

Tuesday Oct 23 - Overcast all night.

Wednesday 24-31 - Overcast with rain.

Considerable thin clouds at sunset.

Focus 23.51 (13.53 - 0) Changed plugs in

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
1 43 W	+14 12	0-1	6.81	Ao	3-3-3	Lim. 2" - 5.2 at sunset (6.5, 9.2) ⊙ finder starts
1 17 W	+57 28	1	7.0	Bone	3-3-3	Ps neg. At first did not clamp in Dec. but telescope clamped N.
1 36 W	-49 03	1	7.55	K1	3-3-3	Lim. temporary improving
2 09 W	+25 41	0-1	8.32	Ko	3-3-3	AG 25
2 01 W	+26 51	0	7.65	Ko	3-3-3	AG 25
1 03 W	27 44	0	7.44	Go	3-3-3	AG 25
			8.02	G5		Clouds str.! Couldn't see f.f.
1 57 W	24 54	0	8.26	G5	3-3-3	AG 25 clouds, sky looks fair
					10.7	4 or 5 str. clouds in f.f.

~~Hour~~

	MC	SC	MTW	STW
Oct. 30	-1m 08s.2	+12s.5	-30s.2	+0m.1
				reset

Date 1946 Thursday Oct 31 - Nov 1, H-NW **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13042	HD 111	00 00.9	+21 43	I-25	[illegible]	0.08	15.0°	22 19	23 49	4
13043	10538	01 37.2	+31 42	"	"	"	12.7	22 51	00 20	1
13044	A.G. 1699 21431	02 22.4	26 56	"	"	"	13.2	01 55	03 09	3
13045	A.G. 2645 37906	05 37.1	29 10	"	"	"	12.1	03 14	04 22	3
13046	A.G. 1 5101	00 51.9	17 47	"	"	"	12.0	04 27	05 55	7

Focus Test

Saturday, November 2-3, 1946, Overcast all day until
rain. Clearing 2310 with west wind. Clear 2330.
Snow arrival. Thickening 0015 with east wind
Solid 0100. Hopeless 0200, very strong east wind 2 M.

Sunset. Haze clearing + falling in from 20°
Sunset at 21[30]. Cloudless.
Cassegrain focusing failed — put on substitute belt.
Focus 23.56

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
23[..]	2 07 W	+ 27 58	0-1	8.02	K2	3-3-3	AG 25 Cloud over star at start. Take shots [illegible]
[..]	1 30 W	31 56	0	7.20	G5	3-3-3	Binary 23.58 *[illegible] missed [illegible]
[..]	2 06 W	26 05	0-1	7.65	K0	3-3-3	AG 25 Temp. dropped from 13.4 to 13. [illegible]
[..]	1 01 W	29 09	0-1	7.56	K0	3-3-3	AG 25
0555	1 24 W	24 12	0	7.73	G5	3-3-3	AG 25 Haze Star gone 0555
		O.T.B.				10/7	4 PHs [illegible], 4 Blanks [illegible] done. Hum 5 to 24

MADE THIS NIGHT'S OBSERVATIONS TO 4.5[m] STAR HARDLY VISIBLE WHEN SHIFT BLOCK - 5 TO N.W.

Date Tuesday Sept 4-5/45 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13047	HD. 197207	20 37.2	29 49	I-25	E103a-O	Set .008	+12 5	19 34	19 34	1
13048	A.G. 2 3+4 HD. 33585	0506.2	26 21	I-25	E103aO	.008	+12.2	0233	0425	
13049	AG 3292 5483 cy	05.3	26 34	"	"	"	12.2	0427	0545	
13050	AG+529 7109 cy	05 26.4	28 14	"	"	"	12.3	0548	0626	
	Focus Test									

Focus at ad 23.50

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Start delayed when spray on temperature control stuck. Further delay when clouds drifted over after setting. Got 10 mins of clear sky when broken clouds rid of exp. Shed guide shut at 19.34 Running light at 22.30
		20 58	O	9 12 G5	Strong gusty N.W. winds, heavy cumulus clouds to 0115-30. Focus 23 57
0-0	1 50 W	26 24	O	8.11 G5	3-3-3 Still quite windy, some clouds. A.G. 25
0-1	1 15 W	26 29	C	7.71 Ko	3-3-3 AG 25 passing clouds.
0-2	0 41 W	26 24	O	7.05 Kz	3-3-3 AG 25 passing clouds.
		O.T.D.			10/7 + P.Hs. loaded. 4 plates in dew. Heat on M.
	Tues.	26 55	5-6 Hd.	A-Cu	clouds continuously 1800 – 2305.

Date June Nov 5,6, 1946 - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	A.G. 2946									
13051	HD 41456	06 03.3	+26 32	I - 25	E 103a-O	.008	+07.6	03 21	0543 1	
	A.G. 4529									
13052	7109308	20.4	+28 14	"	"	"	+07.5	05 47	0525 2	
	Focus Test								1	
									2.	

See previous page for Hr. Comment. — Began 2330 — Star 0106. Last on circuit, then made circuits from N. Cent. — ended 0300.

Focus 23 60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0548	0 Z Z3 W	26320		8.54 Ke 3-3-3	AG 25
0525	cc +5 W	28030-1		7.05 Kz3-3-3	AG 25 Seeing improving rapidly
		S.T.B.			10/7 2 PHs. Loaded, full box of plates in dome. Heat to M.

	MC	SC	MTW	STW
Nov. 6	-1m 14s.0	+05.4	+10°2	+0m.1 rent

(same no. as previous plate)

Date Wed 9p 6-7/46 L.W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13056	HD. 197207	20 37.2	29 49	I-25	E 103a0	Set 008	11.2	19 00	20 00	3
13057	214265	22 31.9	27 16	"	"	"	11.0	20 05	21 55	4
13058	3264	00 37.7	40 00	"	"	"	11.1	22 00	23 [illegible]	1
13059	8300	01 17.2	26 03	"	"	"	11.0	22 57	00 43	2
13060	AG 21747 22Eq	03 30.0	27 16	"	"	"	11.0	00 46	01 56	3
	AG 22+7 31781	04 53.5	24 04	"	"	"				
13061	AG 22+8 21[illegible]	04 54.2	22 00	"	"	"	11.1	02 06	04 04	1
13062	AG 6+5 51101	06 50.4	24 47	"	"	"	11.1	04 07	04 50	2
	Focus Set									
		TLES, Nov	12-13/46	Wm-N						
13063F							+6.7	Focus Set +T		1

Journal 23.595?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 06 W	27 30	0	8.12 G2	3-3-3	A.G. 25
	2 06 W	27 30	0	8.19 K0	3-3-3	A.G. 25 Lens inverted
	1 04 W	48 15	1	7.14 B2	3-3-3	Cirrus
	2 09 W	26 16	1	8.25 K0	3-3-3	A.G. 25 Left Circle + 23.15
	1 09 W	27 25	1-2+	8.19 K0	3-3-3	A.G. 25
				8.91 G5		ONLY ONE STAR IN FINDER SET TOO FAR AWAY FROM CENTRE & TOO BRIGHT TO BE RIGHT STAR. CYCLES SETTINGS - C.M.
	1 54 W	35 03	3-2	8.64 G2	3-3-3	MISC COMM. FROM S.W.
	0 43 W	54 42	3-1-2	7.73 G5	3-3-3	HAZE ROUND INCREASING. STAR GONE 05.5a.
		OTB.				10/1 Pivot by 4 pts. 4 Pts. tested. Right and some East on Dec.
	23.66 (old) = Sid-Loc - 0.12:					10 - 7 = 3
	15.92s (new - micrometers)					OTB
	Set with 7 mid+					
						Loc 3- -1 11h 30.2 SE +08.4 MJW. +01.8 S-W +02

Date Thurs Nov 14-15, 1906 Wm Wood **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13059	AG N 291 HD 190228	19h 57m 9	+12° 52'	I-2.5	E, 13a-0	.017	+5.0	7h 41m	13h 02m 2	
13060	AG 13 113 HD 209058	22h 01m 3	+17° 23'	"	"	"	+6.0	19h 18m	20h 46m 3	
13061	AG M 403 HD 224301	23h 35m 0	+26° 17'	"	"	"	+6.0	20h 22m	21h 32m 4	
13062	AG 457 HD 9358	00h 41m 1	+3° 25'	"	"	"	+5.9	22h 00m	23h 19m 1	
13063	AG 450 HD 4372	00h 41m 0	+13° 24'	"	"	"	+5.9	23h 10m	00h 41m 2	
13064	AG 2 = 45 26 710	04 08.4	26 00				5.9	00 47	01 03 3	
13065	AG 2 = 3 [illegible]	03 39.5	29 18				5.9	02 09	04 43 4	
13066	AG +3 346 [illegible]	03 03 4	30 23				5.9	04 13	05 29 1	
13067	AG +24 4 21760	10 23.8	24 41				5.8	05 34	06 54 2	
	Focus Test									

Focusing Eyepiece IN

FOCUS SET AT 22.5 (Ph. Prime)
15.3 (Photovisual)

[faint illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2" 20	-28°10'	0	7.72 95 3-3-3	good
	1" 45	-27°31'	0	7.72 60 3-3-3	" good
	1" 31	-27°24'	0	7.70 60 3-3-3	" good
	1" 18	-26°54'	0-1	7.74 95 3-3-3	" good
	3 [illegible]	[illegible]	0-1	7.74 95 3-3-3	" good
	1 [illegible]	[illegible]	1	7.83 60 3-3-3	" fair
	2 23 W	[illegible]	1	8.72 60 3-3-3	" poor
	0 40 W	-29 15	1-2	7.02 60 3-3-3	" good
	1 26 W	-29 30	1	7.24 60 3-3-3	" good
		O.T.B.		10/7	

1 PH. LOADED, 4 PLATES IN DOME.

HEAT ON M.

Date Friday November 15-16 1946 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13068	HD 192892	20 12.2	+26 11	I-25	[illegible]	009	+4.5	17 33	19 03	3
13069	206987	21 41.0	+28 48	"	"	"	+4	19 15	20 25	4
13070	219415	23 10.5	+25 09	"	"	"	+4.5	21 37	21 29	1
13071	1501	0 14.1	-25 55	"	"	"	+4.4	21 31	23 16	2
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1
3073	[illegible]	[illegible]	[illegible]	"	"	"	+4 3	23 15	00 31	2
13074	24768	03 51.2	25 00	"	"	"	+4 3	00 35	02 56	3
13075	44780	06 16.6	25 06	"	"	"	+4 3	02 41	03 45	4
	Focus Test				OTG					

Focus not changed 23.69 - 13 Venus
15.395 micrometer

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 09 W	+26 20	0	7.93 F5	3-3-3	AG 25 Early Nodule water 2 mm. clear
	2 13 W	+24 21	0-1	7.723 K0	3-3-3	AG 25 7.2 mb.
	1 17 W	+25 22	0-1	7.44 K0	3-3-3	AG 25 -
	2 15 W	+26 09	0-1	5.97 G0	3-3-3	AG 25 Light clouds
	2 13 W	+23 11	1-1	4.21 M	4-4	clear. = 1.1 G 2
	0 59 W	28 16	1	7.12 K0	3.3-3	AG. 25
	2 03 W	25 06	1	8.91 G5	3-3-3	AG 25 Some haze toward end
	0 46 W	21 03	1	7.22 K3	3-3-3	AG 25 Broken clouds from 03:15 on
					10-7	Sky filling in. Closed at 4:20 A.M. Mt. stuck.

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Final

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS

Date Sunday, November 16-17, 1918 H. L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
12976	HD 236421	21. 57½	+24. 06	I-25	Cramer 40	0.03	+6 2	17 55	19 45	1	
12977	21 [illegible]	22. 11½	+21 31	"	"	"	+6.0	19 07	21 17	2	
12978	5706	00. 53.	+27 05	"	"	"	+1 0	21 09	22 09	3	
12979	13479	01. 57.	+25 27	"	"	"	+1 0	22 51	00 21	4	
12980	20081	03 [illegible].	25 38	"	"	"	+5.0	00 20	02 16	1	
12980F	[illegible]			OIB							

Heat not on mirror. Mirror cloud apparently [illegible] but was rapidly clearing after shutter opened.

High wind.

Vernier 25.65 Cal — 0.34;
Micrometer 15.430 Cal + 0.45

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 13 W	+26 17	0-1	8.57 K5	3-3-3	AG 25 [illegible]
	1 37 W	+29 45	0-1	7.77 K0	3-3-3	AG 25 [illegible]
	1 22 W	+27 22	0-1	8.11 K0	3-3-3	[illegible]
	1 10 W	+23 38	1	5.02 G5	3-3-3	[illegible]
	1 0 W	25 43	1	8.56 K0	3-3-3	AG 25 Star slowly out while setting on next star. Remain guide stock. Clear up about 3:30
					10-7	

	MC	SC	MTW	STW
Low. 18	−1 18.6	+08.0	+26.6	0.0
				reset

Date Wednesday December 19 – 11 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13081	HD 40372 AG 32 47	05 53 8	01 49	I-25	E103a-O	1.2	+6½	02 19	02 45	
13082	44 73	06 13 2	25 06	"	"	"	+6½	03 12	03 18	
13083	3 Aur 56 176	06 10 9	26 53	"	"	"	+5	05 22	05 26	
13084	HD 46900 74 211	06 41 1	28 32	"	"	"	+6½	05 32	05 35	
	Home Test									

Rich boys ended 0115—
Clearing

Venus 23-06
Spica 15-33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 24 W	6 L 52	0-1	6.20 A5	3-3-3 Blurry
	0 19	25 0 5	1	7.22 F5	3-3-3 AC 29 Thick Low Cl
	1 4 10	26 48	1	7.24 G5	3-3-3 AC 45 WIND INCREASING
	1 15 W	28 20	0	6.95 Q2	3-3-3 AC 25 Wind gusts 0 55
		C. T. B.			10/7
					3 Rks. Lower Spokes Visible
					Wind 0115 55

Date Tuesday Nov 19-20, 1946 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13085	mwc 360 HD 200310	20 57.6	45 46	3-25	E103aO	008	+5.2	18 05	18 17 3	1154
13086	mwc 346 HD 195417	20 26.0	36 39	"	"	"	-5.7	19 20	19 30 4	1239
13087	HD 214365	22 31.9	27 16	"	"	"	+5.9	19 33	20 43 1	1145
13088	HD 5394 γ Cep	00 52.7	60 "	"	Pan 10	"	+5.9	20 51	21 21 4	
					"		+5.9	21	21 26	
								21 27	21 09	1108
13089	HD 1501	01 14.1	25 55		E103aO		+6.1	21 17	21 47 2	1207
13090	HD 10548	01 39.2	31 43	"	"	"	+6.0	22 50	23 34 3	1 21
13091	HD 17674	02 45.1	19 52	"	"	"	+6.0	23 37	00 51 4	1-16
13092	40 378 40 Eri 556	03 53.2	01 49				+6.0	01 01	01 15 1	1 E
13093	31 567 +00°19	04 54.2	20 00				+6.0	01 22	03 42	1 N
13094	37 267 +19°16	07 12.4	26 21				+6.0	02 47	05 11	1 N
13095	36 [illegible]	[illegible] 32.1	36 19				+6.0	05 16	05 56	1 N
	Mon Not									

Focus 2370 – .04 . 23.66 – left as it was.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 054	45 56	2	5.2 B3e	3,3,3	Still murky at first but improving.
	W 239	36 47	2	7.7 B3e	3,3,3	Be Reg. Field checked.
	W 145	27 27	2	8.19 K0	3,3,3	Vel. Prog A
				2.0 Reg	no plates 3,8	at 1
		60 25			16	5
	E 008				16 9 plates	9.
	W 207	26 07	1	9.07 G0	3,3,3	Vel. prog. Sky seems murky again.
	W 131	31 54	1-2	7.20 G5	3,3,3	Bin. Temperature set.
	141 W	30 52	2	7.64 G5	3,3-3	
	103 E	01 50	2	6.20 A0	6,-4,	Binary
	223 W	30 54	2	8.64 G5	3 3-3	A.G. 25
	131 W	26 15	2	8.23 G0	3-3-3	A.G. 25
	034 W	26 08	2-1	8.01 G0	3-6	AG 25 Hazy + thick
		O.T.B.			1/2	I.P.H.L called

Nov. 20 MC −1m 24.2s SC +07.9s MTW −19.2s STW +0.1m adv. 1 min.

Date Wednesday Dec 20 21, 1946 L-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle 2nd
13096	H.D. 208951	21 54.7	30 03	I-25	L 103a O	Set 005	+6.9	17 39	18 54 1	
13097	" 216401	22 46.0	28 24	"	"	"	+6.9	19 05	20 45 2	
13098	1452	00 30.6	29 32	"	"	"	+6.9	20 52	22 33 3	
13099	10388	01 35.2	31 43	"	"	"	+6.5	22 42	23 12 4	
13100	10465	01 50.0	27 18	"	"	"	+6.9	23 16	01 02 1	
13101	403 72 AC 2663	05 32.2	01 49	"	"	"	+7.1	01 09	01 25 2	
13102	~~3338~~	05 35.5	29 13	"	"	"	+7.	01 30	02 18 3	

Eros Test

Dec 27 Clouds breaking up late afternoon, heavy streaks at sunset. Both telescopes until about 21.15 when sky cleared north & NW and Capricornus and Nova Aquarius telescope when star proved out. Nova elected! Closed at 23.00 sky thick!

Focus Venus - 23.623 = Tot. -.25
Mic. - 15.457

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	0 47 W	30 15	2	8.07 Ke	3-3-3 AG 25	Low haze
[illegible]	37 W	29 09	2	8.49 Go	3-3-3 AG 25	
[illegible]	45 W	28 47	2	8.62 Go	3-3-3 AG 25	
[illegible]	11 W	31 55	2	7.20 Go	3-3-3 AG 25	Haze
[illegible]	1 40 W	27 23	2-1-3	8.49 Go	3-3-3 AG 25	
[illegible]	0 50 E	01 30	2	6.20 As	5-4	Haze, becoming worse, seeing getting poorer.
[illegible]	0 05 E	29 13	2 1	8.10 Go	3-10/7	Single C203 Exposure of planet.
		O.T.B.				

4 P.Hs. SEALED. 2 PLATES IN DOME NOT SEALED.

	MC	SC	HTW	STW
Nov. 25	-126.3	+06.9	+08.2	+0.1
Nov. 27	-127.2	+06.7	+15.8	+0.4

Date Sunday, December 1-2, 1945 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD 219312	23 12.6	+49 40	I-25"	E-103a-D	2.7 .008	(-2.2)			

Focus set 23.72 = tub - 08
mm 15.350

NB. One of upper cables hanging loose. Observed very cautiously.
Cloudy much of day Partly cloudy at dark. Strong wind + continued cloudy. Dome temp +14

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
				6.8 Ave		MWC 397 Clouded over + started to snow while setting on the 19[15]. Closed shutter. Wind up 22[00] mw very thick Lightning in S for 12 + done

	MC	SC	MTW	STW
Decz	-1276	+064	-2852	-C.M7

(estimated 1 mm)

Date Tuesday Dec. 2-3/46 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13103	MWC 317 HD 183143	19 23.0	18 05	I-25	E 103a-O	Set .008	-7.5	18 20	19 30	4 3
13104	" 213389	22 25.9	48 51	"	"	"	-7.5	19 43	20 53	1 7
13105	MWC 307 218393	23 02.6	49 40	"	"	"	-7.5	21 03	21 25	1 7
	Same Spot					OK.8				
	Wed. Dec. 4/46									
13103F	Same spot			I-25	E-103a-O	Set .008	-0.2			
	"					"	-0.2			
	"					"	-0.2			

Wed Dec 4-5/46. Set Twice but clouded out each Time.
Thick Cotes. Trouble with focusing Cas. Hd -
Guiderscope removed from tube W.

Focus - Vernier 23.75 - Tab - 07
Micr. 15.33

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Clouds at sunset, delayed starting
3	04 32W	18 09	0	6.9 Beser	3-3-3	Be Psrg.	Seeing poor!
	2 37W	49 04	0	7.35 K1	3-3-3	Binary	Seeing better
12	2 37W	49 54	0-1	G6 Ave	3-3-3	Be Psrg.	Some haze clearing over.
					10/7	good focus.	Sky cloud until ab. 7 22.30 Still breaking again with patches of blue sky Closed at 11.30. V
	Micrometer reading -			15.319	10/7	Set 0	Widened the seeing -
				15.518	10/7	. 4	part way of slit
				15.718	10/7	. 10	
Time.							
	15.418 is substantially correct.						This is according to Tab corr.
							on Micrometer = 39.19 - Set to Vernier (Mag)

Date Thursday Dec 5-6/46 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13106	M.W.C 317 HD. 183143	19 23.0	18 05	I-25	E 103-0	set .008	+2.8	17 45	19 15 3	
13106F	Focus Test			"	"	"	"		3	

Focus set by Prism. 15 #58

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp			REMARKS
	4 30W	18 09	0-1	6.9 Bosch	3-3-3	Be Beg.		9 stage Clouds moving.
		OTB			10/7			Sky filling in solid
								Closed at 20.30
								Correction on watch M.T. + 2 min.

Date Tuesday Dec 10 11/46 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13107	HD. 10588	01 32 31	43	I-25	E-103a-O	Set .008	+9.1	20 [illegible]	21 40 4	[illegible]
13109	" 23141	03 37.7	20 04	"	"	"	10.0	21 [illegible]	[illegible] 15 1	[illegible]
	Focus Test					O.T.B.				
13108	HD 40 372	05 53.2	+01 4[illegible]	"	"	.008	[illegible].0	00 26	[illegible] 12 2	[illegible]
13110	AG 1606	05 25.6	12 6 13	"	"	"	+[illegible].[illegible]	00 53	01 07 3	[illegible]
13111	HD 67542	08 04	+2[illegible] 23	"	"	"	+8.9	03 33	04 13 4	[illegible]
13112	HD 83807	09 35.8	+28 25	"	"	"	+8.9	04 25	[illegible] [illegible] 1	[illegible]

Developer D19 used for these plates, and following.

Focus set at 15.538 Mic.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
							Rain all day. Clearing before sunset. Clouds at sunset and then clearing again later with a strong wind.
	0 58W	31 55	0	7.20	G5	3-3-3	Strong wind image unsteady
	1 34W	26 13	0	8.49	Ko	3-3-3 AG.25	Low light clouds.
						10/7	
	0E 19	+01 49	0	6 20	A5	3-3-3	Scattered
	2W 29	+26 14	0	8.30	M0	3-3-3 AG 25	
	1W 04	+29°15'	0	7.02	G0	3-3-3	"
	1W 02	+22°1.'	0	8.[illegible]	G0	3-3-	" EXPOSURE STOPPED BY CLOUDS FROM NW.
							4 loaded DH's + 14 plates in dark
							Heat on mirror

Note: All plates fogged
Landscape plate from holder #1 [illegible] two plates from full box
Plate from holder #1 fogged, [illegible] the rest of the plates [illegible]

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Date Wed. Dec 11-12 1946 W-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
13113	MWC 23 HD 12302	01 95.6	59 12	I·25	L 103a0	·008	+5.9	08 30	10 34 2	1344
13114	2 1560	03 49 8	44 38	"	"	"	+6	10 40	00 40 3	
	Focus Test					OTB				

Dec. 11 13^h MC $-1^m 27^s.6$ SC $+07^s.6$ MTW $-28^s.6$ STW $-0^m.2$ reset.

Focus Mic. 15.485

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	138 W	5925	0-1	8.2 B 3e 3.5.2	feet checked. (Upper (Lens)
		4447	0-1	7.8 B 3.3-3 10/7	" " Objective, Clouds. Star
			Quality improved in middle		struck at 0.40 Breaking
		Found flipper in when putting on four test.			and partially clear later
					then fitfully in echs
					Closed at 3.00

DATE FLIPPER

	MC	SC	MTW	STW
Dec. 13	-1 28.0	+07.1	-19.0	+0.2

Date Friday, December 13-14 1916 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	HD 218393								
13115	MWC 397	23 02.6	+49 40	I-25	E-103a-O	.008	-2.0	18 30	20 10
									7
									0 5 0
								+ 5 F	
	Sat Dec 14-15.			Hd.	A few breaks about sunset then thick.				
13116	HD 58702	07 22 5	37 45	I-25	E103aO	.008	14.0	02 01	03 25
13117	7 Mon	06 48.1	27 18	"	"	"	14.0	03 32	05 46
13118	102 Tau	11 46.3	27 46	"	"	"	13.9	05 52	07 02
	Focus Test								
	Plate taken per I.R. at Princeton etc. Sky								
	Stars grey & fuzzy.								
	Sat. 9th Dec 15-16			N.	Clear during day. Slowly clouding				

Cloudy much of day, clearing (on flume) from sunset on. Very light wind.

From 15.395 (night)
+(Year 23 Feb - 11)

Max temp 42°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	15 W	+49 54	0-1	6.8	Ave	3-½-3	(Comet in field) very good Comet is faint to the naked eye, but I used Comet 1° 13' - 1° 45' N. of Pole Field 2° 0'. Star mag 8 stars, even illumination. From midnight to 3:00 A.M. sky clear and steady with occasional light cirro-cumulus clouds
Thurs	Variable darkness from 22:00 to 01:30 W.						Wind not so strong as during day but
01:22	115 W	27 40	0-1	7.69	K0	2-3-3	AG 25 increasing considerably during night.
03:03	211 W	27 07	0-	7.38	K0	3-3-3	AG 25 Some clouds. Seeing still variable.
07:12	036 W	27 30	1	7.72	G5	5-3-3	AG 25 Long passing clouds. Very short not
		OTB				10/7	held. Looked 3 times at plate with no. Red light on guide scope left 'out'
	at sunset; overflume.						Sky fell thick at 5 A.M. L

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Date Wed Dec 13-14, 1916 146-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13119	MWC 397 HD 218393	23 02.6	49 40	I-25	Ei 0320	008	-6.6	21 22	23 16 1	
13120	HD 10588	01 38.2	31 43	"	"	"	-6.9	23 27	star gone 00 29 2	
13121	[illegible]	05 53.2	[illegible] 49	"	"	"	-7.0	01 20	0141 3	
13122	[illegible]	07 28.7	25 09	"	"	"	-7.0	0155	0334 4	
13123	80217	09 13.4	26 40	"	"	"	-7.0	0350	0550 1	
13124	101906	11 38.6	24 53	"	"	"	-6.9	0559	0711 2	
		Focus Test								

much Trouble starting (1 h, 2 m, 14 s) principally from time to time frozen wheels. Head with clearing + alcohol.

Focus set 15.340 from graph
Vernier reads 23.75 (Table = 23.85)
Checked plunger in + both out

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
[illegible]	W 5 43	49 55	0	6.8 Ave	3,3,3	
[illegible]	4 20 W	31 58	0	7.20 G5	3,3,3.	Dry. Stuck for about 40 mins. Slow motion buttons would not move tel. for 10 min.
[illegible]	1 20 W	01 49	0	6.20 A5	3.3.3	BINARY
[illegible]	1 34 W	29 04	0-1	7.92 Go	3 3 3	AG 25 more hunt & switch slow buttons
[illegible]	2 06 W	26 28	0-1	7.93 Ko	3-3 3	AG 25 some clouds
[illegible]	1 02 W	24 18	1	8.05 Ko	3 3 3	AG 25
		O.T.B.			10/7	

2 P.Hs. loaded 2-boxes of plates each

Date Thursday Dec. 19-20/46 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13125	HD 40372	0353.2	01 49	I-25	Ea 103a O	.008	-5.8	01 20	01 50	1.2W
	62285	0738.1	26 01	"	"	"				
~~13126~~ 13125-F	63432	0742.8	27 37	"	"	"	-5.8	02 07	stargone 02 23	1.1W
		Focus Test								

Focus 15.342

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	1 30 W	01 49	0	6.20 A5	3-3-3 BINARY
				6.86 K5	no star, checked settings, is 1950 dec. OK?
[illegible]	0 11 W	27 29	0	7.70 G03	10/7 large blurring ctrs
		C.T.B.			

Closed 03 30 - thick
4 PRs. backed. 16 blds in dome

	MC	SC	MTW	STW
Dec. 20	-1 28.0	+08.5	-02.6 s	+0.4 m
23	-1 25.2	+08.0	-00.2 s	+0.2 m

Date 1946 Mon Dec 23/24 L/Ta Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13126	HD 64285	07 35.1	+26 01	I-25	E103a-0	.008	+0°.8	01 18	01 50	0h 00
(13127)	56176	07 10.9	+26 53	"	"	"	+0°.8	01 55		0h 55
	Focus Test									

Tuesday December 24-25, 1946 H.

Cloudy & light snow early evening. Clearing 11^{30}-12^{00}; haze & clear later. Thick by 3^{00} when Santa returned!

Focus Set 15.432

Began to clear about 2h1 hrs
Still ~~cloudy~~ with cloud at 00h

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0150	0h.00	+25 53	0-1	6.86 Ks	3-3-3	
	1 35W	+26 47	0	7.24 Gs	3-3-x	Cont beginning, intrigue at 02 hrs Blows dec of m focus test only
				~~7.24 Gs~~	10-7	mind cleared cloud 2.20 (FOCUS OK) fuse + lost 10 mins.

Only mags 1 + 2 visible at 300; star kept running off in dec about ½ or ⅔ radius of upper finder field, impossible to keep it on plate. Only about 15 mins actual exposure. Abandoned plate on acct visibility, but could scarcely continue due to dec slippage.

2 toilets frozen 16h in time.

Time monitor location functioning, when opening up, but lately keeps on running.

Operator: Neil Cobb-L.

Tues Dec 24	MC	SC	MTW	STW
	-1m27.9	+08.4s	+02.7s	+0.4m

Date 1946 Dec 26-27 Thursday N-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
13128	MWC 317 HD 213393	23 02.6	+49 46	1-25	E-103a-O	.008	-06.2	17 24	18 04	3	1 01 W
13129	222390	23 3[illegible]	+26 59			"	-06.2	18 [illegible]	19 18	4	1 49 W
13130	10388	01 38.2	+31 43			"	-06.4	19 [illegible]		1	

Sat Dec 28-29

Bad ice storm last night and this morning. Came up in afternoon when it cleared - chipped ice from lower racks but shutters still won't open account of upper racks. HA

Th Dec 26 MC SC $\overline{MTW}$ $\overline{STW}$ (Stopped & reset)
$-1^m 27.9$ $+08.0^s$ $+22.6^s$ 0.0^m

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Focus 15.348 (mean.) (Vernier reads ~ 23.72)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 01 W	+49 53	0	68 Ave	3-3-3	
	1 43 W	+27 13	0	7-43 Ko	3-3 3	AG 25
		+31 56		7-50 G5	3-	Vwk, possible measurable (numbered 13130 but likely no good) clouds 19 40
						Running total Closed up 22 + twice twice + 11 plate (2 emulsion types 2 emulsion types in each)
						Plates 13126-13130 incl. UNDERDEVELOPED

Date 1946 Dec 30-31, Mon. Hd- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13131	MWC 397 HD 218393	23 02.6	49 40	I-25	E103a0	008	-11.2	17 43	18 47 1	1 20
13132	MWC 407 HD 224559	23 53.8	45 52	"	"	"	-11.1	19 04	19 44.2	1 20

checked focus plunger in flipped out. Focus set for -11.5° C by extrapolation at 15.283

Vernier reads 23.81. (which is 2 less than tabular.)

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
19h 1m	W 2 00	49 53	0	6.8 AVG	3, 3, 3 Be Prog. light clouds most of time
19h 2m	W 2 05	46 05	1-0	6.5 Bone	3, 3, 3 " " RA setting terribly slow!
					Remaining cloudy closed 20 40

	MC	SC	R.I.N. water	S.W.
Dec. 31 (WBEN) at 13h Local C.T.	-1m 25.8s	+08.5s	+16.0	-19.7s rust

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Date 1916 Dec 31 - 1917 Jan 1 Tuesday N Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13133	HD 40372	05 53.2	+01 49	1-25	E 103a0	.005	-0°.3	23 34	23 50 .2	
	~~35 Ori~~	~~05 51.4~~	~~+25 31~~							
	focus test									

Clear start all early evening. Clear 2215; Clear over all top of mirror through spot of frost in mirror.

Focus at (corr.) 15.220

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 17 W	+61 48	0	6.20 A5	3-3-3	Closest star is HD.
				7.55 1		Cloud front forming again towards end of exposure on 13133. Not worth trying for it star
					10/7	Had to do removing plate before from next night.
						Counter closing shutter.
						1 holder loaded 3 plates on sheet
						(box of 11, with note on sheet at top)
						Heat on mirror

	HC	SC	West	S.W.
Jan 3	-1 29.6	+10.7	+16.2	+09.9
Sat Jan 4	-1 23.7	+11.8	+24.8	+24.5

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Date 1946 Sat Jan 4-5 Ta/W. Julian Day 7

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
13134	HD 218393	23 02 6	49 40	I-25	E103aO	.008	-07.3	18 47	19 41	4	
13135	10578	01 38.2	+31 43	"	"	"	-07.3	19 49	20 41	1	
13136	(28497	04 24.5	-13 17	"	"	"	-07.3	20 51	21 21	2	
13137	HD 40372	05 53.2	+01 49	"	"	"	-08.0	23 18	23 56	3	
13138	41995	06 33.3	+28 21	"	"	"	-08.0	00 01	00 39	4	
13139	36176	07 10.9	+26 53	"	"	"	-08.0	00 40	02 18	1	
13140	76752	08 53.0	+25 48	"	"	"	-0.80	02 24	03 02	2	
13141	111541	12 44.9	+26 56	"	"	"	-0.81	05 15	07 08	3	

Focus Test

Some trouble opening shutters, due to ice; not fully open yet.

Set focus 15.332

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
19 4	3 14W	+49 53	0	6 E Ave	3-3-3	MWC 397. Faint, jumpy. Necessary to use dec clamp [illegible]
20 41	1 35W	+31 53	0-1	7.2 G5	3-3-3	Bin. [illegible]
21 21	0 27E	−13 10	0	5.5 B3 e	3-3-3	MWC 86. RA motion very jumpy. Cloud thickening.
			Focus	test	10-7	[illegible] Cloud rapid at 2:45. Closing. Reset focus 15.326
	0 33W	+01 47	0	6.20 A5	3-3-3	Bin. ⊕ Note - plateholder #3 tends to stick.
	0 31W	+25 17	0	5.80 B7	3-3-3	Bin.
	1 44W	26 49	0	7.24 G5	3-3-3	AG 25. RA Rattles slowly. AVERY STRONG WIND SUDDENLY WITH SNOW. DOME TURNING N.G.
	2 13W	25 36	0	7.79 F5	3-3-3	AG 25. IMAGE JITTER SUGGESTS GUIDING QUITE DIFFICULT. WIND STILL HIGH, GUSTY.
	100	26 43	0	7.81 K0	3-3-3	AG 25. GUIDING WORSE, CLOUDS N.W.
		O.T.B			10/7	
						4 PH's. [illegible]
						1 Ko plate: NEGATIVE ENVELOPE
					Jan. 6	MC −131.4 SC +11.7 MT 1.2 −36.8 B-V −0.27

Date Tues Jan 7-8, 1947 W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13142	HD. 112601	12 48·2	+7 30	I - 25	R 103a-D	.008	-02·0	0440	star gone 0532	
	Focus Test									

June 15-'17

Cloudy to 03.15-30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
03.15	e 27 E	2704	0	7.91 Go 5 3 3	AG 25 Strong wind from N.W. Cumulus clouds 03.15. Sky 2/3 cloudy. Very Weak
		0 F B.		19/7.	
					3 holders loaded 2 hours in Dew.

	MC	DC	HTW	STW
Jan. 8	$-1^m 23^s$	$+13^s$	-29^s	$+0^m.1$

Date Wed Jan 8-9, 1947 Hd-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13143	HD 40372	05 53.2	01 49	I-25	E103aO	008	-3.9	22 45	23 15 4	
13144	10 min HD 45546	06 405	~~-4 42~~ ~~-4 47~~ Jan 18.	"	"	"		23 22	23 30 1	
							-4.0	23 31	23 39	
								23 40	23 48	
13145	"	"	"	"	"	"		23 49	23 57 2	
							-4.0	23 58	00 06	
								00 07	00 15	

13145 Focus Test

should be 13145F

Thurs Jan 9-10 1947 L

Low thin cirrus then clearing later. Clear off shutter each time opened. Still was gated on but when first clouds came over they thickened up completely. Quit shack at 11.0b

Cleaned plunger — flubber out.

Focus 15.372
Vernier reads 23.69 (13 less than focus)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22 5	V 13m	+ 1 46	0!	6.20 A5	3,3,3 Binary. Brighter N pair.
23 30	~~23 3'~~	− 4 48	0!	4.87 B3	5,5 set 1 B Can maj type.
23 39					5,5 " 6
23 48					5,5 " 9
23 57 2			0!		5,5 set 1
					5,5 " 6 Dome turns terribly hard!!
	N 0 44				5,5 " 9 Clock stopped at 0006
			0!!!		Dome turns east OK. Set watch by clocks.
		O.T.E.		10/9	Apparently just run down. Cloudy after we set on next star.

Closed, set on 7.2 in AG 25. seeing so bad could barely focus on slit. Set on bright Binary - terrible. Each ball images in brass eyepiece. — Mass of clouds drifting over, looks bad in N decided to close. — Hicks closed.

4 Hicks Londons

	MC	SC	MTW	STW
Jan. 0	−1 Ø22.2	+19.4	+22.3	+ [illegible]

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Should be 13146 etc.

Date Sun Jan 12-13, 1947 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	mwc 397									
13147	HD 218393	23 02.6	49 40	25	E103aO	008	−5.0	17 56	19 16 1	W 3 2
13148	mwc 68 HD 21650	03 24.6	41 25	"	"	"	−5.0	19 22	21 00 2	W 0 4
13149	η Aur HD 32630	04 58.5	41 06	"	Process	"		21 24	22 04 1	
							−5.0	22 04	22 22	W 1 3

Checked Plunger, flexpivs

Set focus 15.360 Vernier reads 23.71 (.12 < Tabular)

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
9 16	W 3 20	49 54	0!	6.8 Are	3,3,3, Be prog.
2:00	W 0 40	41 30	0!	7.2 B5ne	3,3,3 " " Sky thickening from SW
				3.11 B3	no pilton 8,8 set 1 Too thick for faint stars
	W 0 30	41 08			8,8 set 6 Star almost gone.

Ref N: Consider best developer for Plus-X, f.ex. [illegible]

	MC	SC	MTW	STW
Jan. 15	−1 20.9	+18.2	$-22^{s}.2$	$-0^{m}.1$

Date Thurs. Jan 16-17, 1947 Wm/W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Slit				
13 150	HD 43 372	05h53m2	+01°49′	I-25	[103a-o	002	-1.1	22 48	23 12	3
13 151	HD 45 [illegible]	06h21m0	+13°10′	"	"	"	-1.1	23 18	0034	4
13152	675 42	08 03.4	+29 23	"	"	"	-1.2	00 44	01 44	1
~~13153~~ 13152 F	833 40	09 32.6	28 28	"	"	"	-1.2	01 58	0304	2
	Focus Test									3

Checked.
Plunger ON
Flipper out

Selmic ± 15·41 (Vern 23·67, i.e. W12 < tabular)

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0W42	+04°17'	0!	6.20 A5 3-3-3	Binary proj.
1.35W	+13°17'	0	7.03 F8 3-3-3	Binary proj. VANE/AT/BRAGS EYEPIECE STUCK, SEEMINGLY FROZEN. ICE APPEARS THICK ON BOTTOM OF LENSE. + SOME NEAR CENTRE, LOTS OF REFLECTIONS. PREV. RAIN IN CELL DRIPPED DOWN? SET ON F3935, NO # CHECKED CIRCLES OK. NO # .
1.03W	+29 15	0	7.02 Go 3-3-3 AG 35	
0.55W	29 14	0-	7.95 Go 3 AG 25 HAZE, INCREASING. QUITE THICK, DEGRADED TO AG 35	
	O. T. B.		10/7	

4 P.H.s. LOADED. HEAT ON.
+20 PLATES IN DARK

NO

Jan 16 -10.1 -35.1 -13.5

Date Friday, Jan 17/13 Mn - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	NINE 30's					SET				
13 153	HD 218 303	23h52m6	+14°40'	1-25	E 103a-0	008	-1.0	18 21	19 03	3
13 154	HD 13 747	02h25m3	+12°14'	"	"	"	-1.0	19 11	20 01	4
13 155	HD 23 257	03h35m6	+27°37'	"	"	"	-1.0	20 11	21 21	1
13 156	HD 37 000	05h36m1	+20°42'	"	"	"	-1.0	21 31	23 01	2
13 157	HD 44 780	06h18m6	+25 06'	"	"	"	-1.0	23 08	00 12	3
13158	" 63712	07 45.2	29 26	"	"	"	-1.0	00 20	02 40	4
13159	" 103771	12 06.4	29 37	"	"	"	-0.8	02 47	04 47	1
~~13160~~	121319	13 42.7	28 50	"	"	"	-0.6	04 53		2
13132F	Focus Test				O.T.B.					

CHECKED: Flapper-in
Flipper-out

SET FOCUS 15.405 (Mirr)
PROG 23.64 (Vernier; 14 c Labs)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	3 W 27	+49°53'	0	6.8 Ave	3-3-3	Be Prog
	1 W 18	+29°25'	0	7.07 G5	3-3-3	AG Prog UNSTEADY.
	1 W 03	+27°44'	0	7.44 GO	3-3-3	" "
	0 E 50	+25°40'	0	7.77 GO	3-3-3	" "
	1 20 W	+25°04'	0	7.22 KO	3-3-3	" " unsteady
	2 21 W	29 17	0	8.05 G5	3-3-3	" " Limit strong image
	0 09 W	29 20	0-1	8.07 K0	3-3-3	" "
		28 33	1	8.19 K0	3-	" " Sky clouding over
					10-7	suddenly just after start.

Date Saturday Jan 18 19, 1947 Hd-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
13160	HD 32630 4 min	04 59.5	41 06	I-25	Process	008	-2.0	20 45	21 39	1
13161	HD 35708 11 min	05 21.6	21 51	"	E103aO	"	-2.3	21 45	21 55	2
13160 4 min	HD 32630 4 min	04 59.5	41 06	"	Process	"	-2.1	22 01	22 21	1
13162	HD 40372	05 53.2	+01 49	"	E103aO	"	-2.3	22 28	22 58	3
13161 11 min	HD 35708 11 min	05 21.6	21 51	"	E103aO	"	-2.3	23 03	23 13	2
13160 4 min	HD 32630 4 min	04 59.5	41 06	"	Process	"	-2.4	23 17	23 35	1
13161 11 min	HD 35708 11 min	05 21.6	21 51	"	E103aO	"	-2.3	23 40	23 50	2
13163	HD 42285	05 39.4	26 01	"	"	"	-2.3	23 55	00 49	4
~~13164~~ 13163F	H.D. 71730	08 23.8	24 41	"	"	"	-2.3	00 54		1
		Focus Test								2
										3

Sunday Jan 19: 20.L.
60 Clear in afternoon, then cloudy
at sunset. Clearing again at 7:30 PM to midnight
Haze and patches of clear sky. Then cloudy again.

Thick after sunset clearing - photometrically after 1930.

Set focus 15.396
Vernier reading 23.67 (.13 less than Tabulated)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 39	0 09 W	41 07	0!	3.11 B_3	no filter 8, 8	set 1 B Can Mag. Type. Clouds most of time.
2 55	0 04 W		0!	4.66 B3SK	1 filter 3, 6	set 1 Some clouds.
22 24	0 51 W	41 09	0!	3.11 B_3	no filter 8, 8	set 6
22 58	0 38 W	+ 1 49	0!	6.20 A_5	1 filter 3, 3, 3	
23 13	0 21 W	21 53	0	4.66 B3SK	5, 5	set 6
23 35	2 05 W	41 10	0	3.11 B_3	no filter 8, 8	set 9
23 [illegible]	0 58 W	21 53	0	4.66 B3SK	1 filter 5, 5	set 9
11 49	0 42 W	25 55	0	6.86 K_5	3, 3-3	A5 25 HAZE 2 K E. and
		24 30	0	7.74 K_0	3-3-3	AG. 85 considerable haze over horizons
		C.T.B.			10/7	

3 P.Hs. LOADED + 8 IN BOX

HEAT ON M.

Clouded about 0130 - 45

Clearing and about 1/2 has "clouding at and exit"

	HC		SC	MTW	STW	
Jan. 20	-01	19.2	+24.0	+02.0	+0.2	
22	-01	18.8	+24.1	+13.2	+0.0	reset

Date Wed Jan 22-23, 1946 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13164	MWC 397 HD 218393	23 02.6	49 40	I-25	E103aO	008	-9.8	18 58	19 58 1	
13165 a	4 min 40 32530	23 02.6	41 06	"	Process	"	-7.8	20 09	20 25 1	
13166 a	114 Tau HD 35708	05 21.6	21 51		E103aO	"	-9.8	20 31	20 41 3	
13167 a	8 min HD 37468	05 33.7	-2 39		Process	"	-9.8	20 48	21 12 2	
13165 b	4 min 40 32530	23 02.6	41 06			"	-9.9	21 19	21 35 1	
13166 b	114 Tau HD 35708	05 21.6	21 51	"	E103aO	"	-9.9	21 42	21 54 3	
13167 b	8 min HD 37468	05 33.7	-2 39		Process		-9.8	22 01	22 31 2	
13168	HD 40372	05 52.2	+01 49	"	E103aO	"	-9.9	22 37	23 07 4	
13165 c	4 min 40 32530	23 02.6	41 06		Process		-9.9	23 13	23 29 1	
13166 c	114 Tau HD 35708	05 21.6	21 51		E103aO		-9.9	23 31	23 43 3	
13167	HD 37468	05 33.7	-2 39				-9.8	23 52	24 10 2	
13170	HD 51206	07 00.9	26 48				-9.9	00 [illegible]	[illegible]	

Focus test

Clear Jan 23-24 cloudy and snow-flakes in L

Plunger in
Flyfree out.

Focus set 15.300 Vernier reads 23.78
(.11 less than tabular)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
11 58	W 4 42	47 55	1	6.8 Ave	3,4,2 Be prog.
2 25	E 0 49	41 06	1	3.11 B3	8,8 Plan may type spotted with 11-0 250 mi bubble, no petites. 6 min.
	E 0 54	21 53	1	4.66 B3.5	1 petite 3,3,3 Set II Plan may Type
	E 0 35	-2 50	1	3.54 B0	no petites 8,8 Set 1
	W 0 21	4 06	1	3.11 B3	8,8 Set 61 "
	W 0 19		1	4.66 B3.5	1 petite 5,5 Set 0 "
	W 0 45	-2 40	0	3.54 B0	no petites 8,8 Set 6
	W 1 00	+1 51	0	4.20 A5	1 petite 2,3,3. Primary.
	W 2 15	4 09	1-2	3.11 B3	no petites 8,5 Set 71
	W 2 31	24 58	1	4.56 B3.5	1 petite 5,5
	12.45	26 48	1-2	7.34 G5	3,3-3 Vel. prog.
	10 15 W	26 35	2-3	8 96 G5	3-3-3. AG 25 Checked and [illegible] Plan
		C.T.B.			10/9
					3 holders loaded R/A: watch for Beam
					4 plates in. Plates [illegible]
					Sent on M. [illegible]

Date Sunday, January 26-27, 1947 H-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13171	HD 40372	05 53 2	+31 49	I-25	E-1630	008	set −3.5	21 25	22 09 4	
13172	45134	06 21.0	+13 10	"	"	"	+3.3	22 12	23 32 1	
13173	47415	06 33.4	+24 41	"	"	"	+3.4	23 34	00 50 2	
[illegible]	83935	09 36.6	+26 04	"	"	"	+3.3	00 54	Star gone 02 50 8	
		Focus Test							4	

Tues, Jan 28-29: Slight haze at sunset, gradually thickening until completely overcast at 2130.

Trans at ~~23.46~~ 15? Venus 23 59 =

Partly cloudy early evening.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22 [illegible]	0 18 W	+01 49	0-1	6.20 A5	3-3-3	Nadeah = Binary. Intermittent haze at low altitude
23 3[illegible]	1 14 W	+13 05	0-1	7.09 F8	3-3-3	Binary Haze
[illegible] 2	2 19 W	+24 37	0-1	6.98 F8	3-3-3	Binary Haze HAZE, INTERMITTENT - CLOUD BANK OVER N. HORIZON 9:20
	0 57 W	+25 51	1-2	7.81 K0	3-3-3	M.G. 26 CLOUDS VERY CLOSE 9:25
		E.T.S.			10/7	

3 PHEL. ADDED, BOX PLATES NEEDED IN DOME.

FILM ON IR.

	MC	SC	MTW	STW
Jan. 27	-1 17.4	+27.3	-27.2	-0.4
				adv. 1 min.
31	-1 16.0	+30.0	-17.8	-0.3

Date Sunday Feb 2-3, 1907 Hd= Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13175 a.	Ori HD 37468	05 33.7	−2 39	I-25	Process	.008	−3.1	19 24	20 00 3	
13175 b	"						−3.1	20 00	20 30	
13175 c	"						−3.3	20 30	21 00	
13176 a.	"				Process		−3.1	21 00	21 30 4	
13176 b	"						−3.2	21 30	22 00	W 5.7
13177	HD 40372	05 53.2	+01 49		Eastman 40	"	−3.4	22 03	22 43.1	W 19
13178	Aur HD 32630	04 59.5	~~-01 01.9~~	"	Process	"	−3.4	22 51	23 21 4	W 2
13179.	IN Tau HD 35708	05 21.6	21 51	"	Eastman 40	"	−3.6	23 26	23 40 2	W 247

Clearing suddenly at sunset.

Checked Plunger & Flipper Focus at 15.377 Vernier reads 23.71 = Tab. −.11

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		−2 39	0	354 B0	no filters 8,8 set 1 B Cam maj. type
			0		8,8 set 6 spots 6 min with UV bulb and
			0		8,8 set 9 no filter (but hatch closed).
			1		8,8 set 1.
	W 5m		1		8,8 set 6
	W1 19	+1 50	1	6.20 A5	1 filter 3,3 Nadeau's Binary (looks faint!)
	W2	41 10	1	3.11 B3	no filter 8,8 set 1 B Cam maj Type - Clouds
	W2 47	21 54	1	4.66 B35	no filter 3,3,3 set 1 " " " " 11
					Seeing poor, sound midnight clearing again. Light to take shots, filter wheel with hoge. Shutter very stiff. Closed at 200 L
					RJV L: Pressed plates one together near the far end.
					HE MTW STW
					Col 2 -01 14 E -1 C 7

W.

Date Tuesday February 4-5, 1946 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13180	HD 28476	1007.1	+68 44	I·25	E 103a-O	.008	-10·3	0100	0352
13181	114093	1303.2	25 21	"	"	"	-10·2	0400	0640
	Focus Test								

Red 5.6 Clouds and lightning aft. sunset. Clearing about 7.0C Went out and got ready to start. about 9.0 nothing in sight of the west 9.30 started observing late for 21 stars. Power. Sky finished up. again from 9.30 to 9.00 Snowing later.

Friday Feb 7-8, 1946 H-W Cloudy, dark. Started about 1.0 Cleared off about 2.0 21 stars again

Plunkett Telescope

R.A. BUTTONS NOT OPERATING FOR SOMETIME. THEN SLOWLY, THEN MORE QUICKLY WITH A WOWING NOISE.

Jones Bros. 15.287
Bow 23.76

DOME TEMP ±0

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0352	2 23 W	28 30	0	7.55 G5	3-3-3 Star hardly visible seeing poor at times Mist
0640	2 16 W	25 06	0	7.12 Ko	3-3-3 seeing poor. Clouds in W. at 30. THICKENING
		O.T.B.			10/7
					3 HOLDERS LOADED HEAT ON MIRROR
					Feb. 5 MC -01 14.3 SC -32.5 MTW -00m.8 STW 40m.3
					Thursday Feb. 5-6/47 Overcast Thermal evening with snow Shut down at 11 P.M. W.
					Sat Feb 7-8 Hd C Broken cloudy at sunset. Then more Some stars in Zenith at 2100 no better at 2200

of the mirror at 21 and looked for current print

Date Thursday Feb. 11-12 1947 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13182	HD. 10365	01 38.2	31 43	I-25	E-103a-O.	Set .008	-1.3	18 33	19 53 1	
13183	" 40372	05 53.2	01 49	"	"	"	-1.3	20 04	20 48 2	
13184	" 40280	05 52.7	25 46	"	"	"	-1.3	20 58	22 36 3	
13185	" 63138	07 42.3	29 01	"	"	"	-1.4	23 04	00 16 4	
13186	" 89055	10 11.3	26 22	"	"	"	-1.5	01 02	03 22 1	
13187	" 118905	13 34.3	27 12	"	"	"	-1.6	03 30	04 15 2	
	From List					OTB.				

True Mid. 15.405

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	3 20W	31 54	O	7.20 G5	3-3-3 Seeing vile!
	0 00	01 49	O	6.20 A5	3-3-3 Binary
	2 10W	25 47	O	7.85 K0	3-3-3 AG.25 Seeing much improved
	2 19W	28 32	01	7.78 G5	3-3-3 AG.25
	2 17W	26 07	0-1	8.02 G0	3-3-3 A.G.25
	0 13E	26 57	1	X30 K0	3-3-3 AG. 25 Clouding over suddenly at 4.5/15
					10-7
					Ptg. Mag. 13 −C1 13 C +3=4 MTW +27.2 +C.E

Date Wed Feb 12-13, 1947, Hd.-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13188	+D 10° 57°	01 38.2	31 43	I-25	Σ103aO	028	-1.9	18 27	19 27 4	4 25
13189a	8 Pri. HD 37468	05 33.7	-2 39	"	Process	"	-2.0	19 35	20 05 1	
13189b							-1.9	20 05	20 35	
13189c							-2.0	20 35	21 11	W 0 47
13190a	10 Mon. HD 45546	06 23.0	-4 42	"	Σ103aO	"		21 17	21 23 3	
13190b							-2.0	21 25	21 35	W 02
13191a	HD 32630 3 Aur	04 59.5	41 06	"	Process	"	-2.0	21 45	21 55 2	
13191b							-2.0	22 05	22 25	
13191c							-2.0	22 25	22 45	
13192a	11 Tau HD 33708	05 21.6	21 51	"	Σ103aO	"	-2.0	22 56	23 20 3	
13192b							-2.1	23 02	23 10	2 58
13193	HD 43433	07 43.8	27 57	"	"	"	-2.0	23 22	0 36 4	2 24
	HD 49424	06 22.6	26 44	"	"	"				
	Focus Test									

Checked plunger, flipper Focus set 15.393. (Vernier reads 23.68 = Tab - 10

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 2 57	31 57	1-2	7.20 G5	3,3,3,	Binary
		-2 40	2	3.54 B0	no filter 5,8 set 1	3 can mag. Type.
			2		8,8 set 6.	
	W 0 47		2		8,8 set 9	
			3	4.81 B3	1 filter 5,5 set 1	
	W 0 21	-4 45	3		5,5 set 6	
		4 10	3	3.11 B3	no filter 8,8 set 1	
			3		8,8 set 6	
	W 2 54		3		8,8 set 9	
		21 53	2	4.66 B3	1 filter 5,5 set 1	Trouble: RA clamp not working.
	W 2 58		2		5,5 set 6	
	2 24 W	27 30	2-	7.70 G0	3,3,3	Vel. Disp.
				8.12 M0		
		O.T.B.	10/9	(on 12/13)		KJR Prism plates are in middle
					4 T.H.S.	
					GERRY: LOOK AT RA CLAMP	

Date Thursday Feb 13-14 1947 L.W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13194	HD. 40372	05 53.2	01 49	I - 25	E 103a-O	set .008	+0.3	21 47	22 27
13195	" 63410	07 43.7	26 31	"	"	"	+0.3	22 35	00 13.6
13196	" 90009	10 18.2	26 04	"	"	"	+0.7	00 26	01 54 STAR GONE
13197	105771	12 06.4	29 37	"	"	"	+0.7	02 00	03 40
		Focus Test							

Focus Pic. - 15.427

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Haze and broken clouds early in evening, reasonably clear at 9.00
22 27	147 W	01 48	0	620 A5 3-3-3	Binary
[illegible]	143 W	26 23	1	7.71 G5 3-3-3	A.G. 25
01 4	3050 W	2550	1	7.63 Ko 3-3-3	A.G. 25. WIND IN S.W., HAZE FROM SAME DIRECTION. 02 20
[illegible]	2911 E.	2920	1	8.07 Ko 3-3-3	A.G. 25 THICKENING.
		C.T.B.		10/7	
					WAITED TILL 0415 - SOLID
					4 P.Hs. LOADED HEAT ON M.

Date Sunday Feb 16-17, 1947 Hd, Ha, L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	P.M.
13198a	σ Ori HD 37468	05 33.7	−2 39	I-25	Process	008	−2.1	19 02	19 56	1
b	"	"	"	"	"	"	−2.0	19 56	20 50	
13199	HD 40372	05 53.2	+1 49	"	E103aO	"	−2.0	20 54	21 26.2	
13200	10 Mon HD 45546	06 23.0	−4 42	"	"	"	−2.1	21 30	21 42 3	
13201	114 Tau HD 35708	05 21.6	21 51	"	"	"	−2.1	21 54	22 044	
13202	η Aur HD 32630	04 59.5	41 06	"	Process	"	−2.1	~~21~~ 22 18	~~21~~ 22 38 2	
13203	HD 03453	57 43.8	27 37	"	E103aO	"	−2.2	~~21~~ 22 50	00 40	1
13204	" 89557	10 15.0	29 27	"	"	"	−2.2	00 48	02 38 2	
13205	" 108466	12 22.6	28 40	"	"	"	−2.3	03 06	05 16 3	
13206	" 125728	14 16.2	26 31	"	"	"	−2.3	05 22	06 28 4	
	Foc. Test					O.T.B.				

Checked Plunger in Flipper out

Set Focus 15.393
~~Micrometer~~ Vernier reads 23.69 = (tab − 0.11)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		−2 40	0	3.54 B_0	no filter 8, 8 set 1	BC Type RA clamp not working
20 50	W 45m		0	3.54 B_0	8, 8 set 6	"
2, 26	W 56	+1 50	0	6.20 A_5	1 filter 3 3.3	Binary
21 42	W 44	−4 45	0	4.81 B_3	5 5	BC Type.
22 [illegible]	W 2 07	21 53	0	4.66 B_{3+}	5, 5	" Trouble with hand clamping - loose gear assembly.
22 [illegible]	W 3 02	41 10	0	3.11 B_3	no filters 8, 8.	"
20 41	2 21 W	27 29	0	7.70 G_0	3, 3·3	Vel. star.
22 [illegible]	2 08 W	29 11	0-1	7.95 K_0	3-3-3	A.G. 25
0[illegible] 6	2 20 W	28 22	0-1	7.93 K_0	3-3-3	A.G. 25
2[illegible] 0	1 38 W	26 18	0-1	7.21 K_0	3-3-3	A.G. 25
					10/7	

	MC		MTW	STW
Mon. Feb. 17	−01 10·9	+39·2	+15·8	+[illegible]·1

Tue. Feb. 18 Partly cloudy in afternoon.
Hazy and [illegible] Wind East. Clearing 0630.
Overcast 0730. Snow [illegible] (WATER MC −LU 1054)
Clear 0820. [illegible] Partly cloudy & Calm. Wind East 0430. W.

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Date Wednesday Feb 19-20 1947 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13207	HD. 40372	05 53.2	01 49	I-25	E-103a-O	Set .008	-4.7	19 43	20 23 1	
13207F	40460	05 53.8	27-17	"	"	"	-4.7	20 87	2	
	From First					OTE				
13208	HD. 90861	10 24.3	29 05	"	"	.008	-4.8	00 38	STAR GONE 03 06	2 19

Friday Feb 21-22 1947 H

Cloudy at dark. Hazy from west & the rest of night. Light wind and over flurries. Usually about 2" or 3" fog with, but some soft clear. Left 6 2/3" - 7" light & wind, light from the east.

Cleared entirely by midnight. 0130 under. Finer, getting warm.

Feb. 19 — MC −1 10.0 — SC +40.6 — MTW (RJM) +11.0 — S.W. +07.6

Focus Pos. - 15365

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Clouds at sunset delayed opening
	0 06 W	1 51	0	6.20 A5	3-3-3	Binary
		27 17	0	8.02 Ko	3-10/7	A.G. 25 Clouding over suddenly at 20.45. Visited cha. again about 11.15 with some clouds.
	2 19 W	28 49	0	7.54 Ko	3-3-3	A.G. 25 FINDER. CLEAR. HAZE, THICKENING.
						WAITED TILL 0400 - SOLID
						HEAT ON M.
						4 PHs. LOADED + 1 Box
						Thur. 20-21 Thick day all night.
				MC	SC	Focus MTW STW
				Feb 21	−1 [illegible]	− 42.2 − [illegible] +3.5
				Feb 24	−1 09.2	+ 53.1 ? + 10.8 reset +0.3

Date Wed Morn. 5/6/47 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13210	HD. 40372	05 53.2	01 49	I-25	E-103a-O	Set .008	+1.0	20 04	20 48 4	26 M.
	Dove Fast					O.T.B.				

Focus Mic. 15.435

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds coming over after sunset, then clearing, with banks in N.E.
20 45	1 26 W	01 50	0	6.20 A5	3-3-3 Binary Haze clouds, stars 10/7 gone at 20 45. Sky remaining mostly cloudy although clear at times.
					NC SC MTW STW Lick 7 −1 066 +0 488 +27.2 +0.6

Date Friday March 7-8 1947 H-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13211	HD 40372	05 58.2	+11 47	I-25	F-1 + G	.008	+0.2	19 51	19 31	1
13212	45184	06 21.0	+12 10	"	"	"	+0.2	19 34	2 56	3
	{ Stars [illegible] = outlined star image									

Micrometer 15.422
Vernier 23.65 (Sub -0.12)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
12 3	0 17 W	+01 49	0	620 A5	3-3-3	Wadsworth Binary	Light clouds.
21 [illegible]	5 25 W	+13 08		709 F3	3-3	Binary	Hole 17[43] Mid 20[05]
					10/7		Probable n.s.
							Stf Mid 22[20]

* Probable "2" found incorrectly loaded
Reloaded with plate
new Binocart

Date Sat March 8-9, 1947 Hd-Yu-L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	PH
13213	HD 4[illegible]272	05 53.2	+01 49	I-75	E103a O	008	−0.8	20 09	20 39	2
13214	HD 32850	04 55.5	+41 06	I-75	Process	"	−1.0	20 47	21 17	3
13215	HD 35708	05 21.6	21 51	"	E103a O	"	−1.0	21 22	21 34	4
13213 F	Spectrum Test				"	O.I.B.				3

Focus set 15.409 cloudy until 19,30.

Checked Plunger, Flipper.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 1 30	+1 50	0	6.20 A5	3, 3, 3,	Wadeau's Binary.
	W 3 01	+1 10	0	3.11 B3	no filter 8, 8	B Van Maj type
	W 2 56	21 54	0	4.66 B5	5, 5	" " " " Cloud at end.
					10/7	Very remaining track. closed at 02.00 L

	MC	SC	HTW	STW
	-1m 4s.0	+49.9	-13s.8	-0.2
				add 1 min

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Date Tues. Thurs. 11-12/47 L-Nd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13216	5 Ori H.D. 37468	05 33.7	-02 39	I-25	E-103aD	set 008	+05.0	19 02	19 07 3	28W
13217	10 Mon H.D. 43546	06 23.0	-04 42	"	"	"	+05.0	19 17	19 29 4	01W
13218	H.D. 40372	05 53.2	01 49	"	"	"	+05.0	19 36	20 18 1	20W
13219	3 Aur. H.D. 32630	04 59.5	41 06	"	Process	"	+05.0	20 35	21 23 2	17W
13220	114 Tau H.D. 35708	05 21.6	21 51	"	E-103aO	"	+05.0	21 42	21 48 3	21W
13221	H.D. 77313	08 56.7	26 16	"	"	"	+05.0	23 07	00 13 1	12W
13222	H.D. 95725	10 57.8	29 29	"	"	"	+04.9	00 22	02 04 2	01W
13223	H.D. 113771	13 20.9	27 07	"	"	"	+05.0	02 10	04 20 3	55W
	From Sky					O.I.E				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 28W	-02 38	0	3.54 B_0	$4\frac{1}{2}$-$4\frac{1}{2}$ Be Prog	
	0 01W	-04 45	0	4.81 B_3	3-3-3 " "	
	1 20W	+01 50	0	6.20 A_5	3-3-3 Binary	Nadeau guiding
	3 17W	41 09	0-1	3.11 B_3	no filter 5-5-5 Be Prog.	" "
	3 21W	21 53	1	4.66 B_{3+}	$4\frac{1}{2}$-$4\frac{1}{2}$ " "	
	2 12W	26 04	1	8.00 K_0	3-3-3 A.G. 25	" "
	2 01W	29 13	1	7.79 K_0	3-3-3 " "	
	1 [illegible]	26 [illegible]	1-2	7.93 K_0	3-3-3 " "	
					10/7	
						NC SC NTC STC
					[illegible] -1 02 6	+4 9 7 -6 4 2 +0 2

Date Wed Mar 12-13, 1947 Hd, yu, /W **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13221	HD 37468 σ Ori	05 33.7	-2 39	I-25	E-103a		+5.9	19 07	19 13 4	
13225	HD 45546 10 mon	06 23.0	-4 42	I-25	"	"	+6.1	19 23	19 35 1	
13226	HD 37372	05 53.2	+01 49	"	"	"	+6.0	19 43	20 23 2	
13227	HD 32630 11 Gem	04 59.5	+4 06	"	Ilford	"	+6.0	20 35	21 15 3	
13228	HD 35708 114 Tau	05 21.6	+21 51	"	E-103a	"	+6.0	21 24	21 30 2	
13229	HD 67542	08 06.5	+29 23	"	"	"	+6.0	21 53	22 53 4	
13230	HD [illegible]476	10 07.1	+28 44	"	"	"	+6.0	23 00	00 38	
13231	HD 111235	12 43.1	+24 39				+6.0	00 45	03 13	
13232	HD 113460	14 50.5	+36 35				+05.2	03 18	04 14	

Focus Test

LAMP GONE.

Checked plunger + flipper.

Focus set 15.499
Mic. reads 23.55 (= Tab − .14)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 37 W	−2 38	0	2.56 B_2	5, 5	Beam may Light
	0 10 W	−4 44	"	4.81 B_3	5, 5	" " "
	0 33 W	+1 52	"	6.20 A−	3 3, 3	Nadeau's Binary
	3 15 W	+41 08	"	3.11 B_3	8, 8	Beam may Light
	3 08 W	+21 52	1	4.66	5, 5	" " " "
	1 47 W	+29 12	"	7.02 G0	3, 3, 3	Velocity Prog.
	1 30 W	+28 27	"	7.55 G5	3, 3, 3	NO AURORA.
	1 30 W	+24 31	1-0	7.92 G5	3.3.3	
	0 15 W	+21 13	1 - 0	7.78 G0	3.3.3	
		E. T. B.			0/7.	

3 plates baked
HEAT ON N1
Gas PLATES NEEDED IN DARK

Date Sun March 16-17, 1947 Hd - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13223	HD 86778	09 55.6	29 16	I-25	E1030	008	-1.0	23 01	00 51 4
13234	" 105898	12 06.2	25 19	"	"	"	-1.0	00 57	03 11 1
	Focus Jed					013			

Earlier - clouds and haze

Cit Focus = 15.410 Vernier reads 23.68 (Tab − .10)

Checked plunger + flipper.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
04	2 11 W	29 00	0	7.88 K_2	3,3,3	Vel. Prog. Half-hour
07	2 21 W	25 01	0	7.94 G_5	3-3-3	AG. 25 Clouds and haze; on last
					10/7	stay remaining thick clouds at 04.08 light snow
						HC 2C HTO BTO
					Ran 7	1 C 16 1 C 50

Date Tues, March 18/19, 1947 Wm-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Pl	Hour Angle End
13 235	HD 86131	09h51m	+29°02'	I-21	E103a-O	5FT	-2.2	22 19	0119	2	
13236	HD 117567	13 26.1	+54 44	"	"	"	-2.3	01 26	0348	3	
13237	HD 139608	15 34.0	+24 21	"	"	"	-2.3	03 54	0344	4	
		Focus Test									

SET MICR TO 15.387
VERIFIED 2369 (106-11)

CHECKED PLUNGER & FLIPPER

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01-1	2.51W	+22°15'	0	7.98 K0	3-3-3 AG PROG Explore: [illegible] ~2100
03-1	1.47W	+24 28	0-1	7.9 F2 ~~8.30 G5~~	3 3 3 ~~AG 85~~ [illegible] Fl. ✓
05-1	1.36W	+24 41	0-1 1	7.81 M3	3 3 3 AG 85 +
		D. T. R.			10/7
					H. on M. 2 P.Hs. hARDER [illegible]
					Lam 19 -2.0C 2 +2.2 +2.0 +2.7

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Date Wed Mar. 19-20/47 L.Na - /W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13238	HD 40372	05 53.2	+01 49	I - 25	E-103a-O	Set .005	+1.8	19 15	19 51 1	
13239	HD 58683	07 21.6	+27 30	"	"	"	+1.8	20 09	22 29 2	
13240	HD 81680	10 01.5	+29 44	"	"	"	+1.7	22 42	00 56 3	
13241	HD 121844	13 52.4	+29 31	"	"	"	+1.8	01 00	03 48 7	
13242	HD 145458	16 06.0	+25 45	"	"	"	+1.7	03 52	05 42 1	
		Focus Test								

Trans at. Occ. 15.447

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1h 5	1 25 W	+01 49	0	6.20 As	3-3-3 Binary Volcan Luidigi
22 [illegible]	2 34 W	+27 24	0	8.14 Ko	3-3-3 AG 25
0 [illegible]	2 22 W	+29 29	0-1	8.21 Gs	3-3-8 AG 26
0 [illegible]	1 24 W	+25 16	1	8.32 Ko	3-3-3 AG 26
0 [illegible]	1 06 W	+25 37	1.0	7.88 Ko	3-3-3 AG 25 HAZE, INCREASING.
		O T B.			10/7
					H. on M. 1 P.H. Longed
					Some faint guiding code

Date Thursday, March 6th, 1947 Wm - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 243	HD 40 372	05 51·2	+01°43′	I-25	EK 2a O	0.67	+3·5	19 12	19 42	2
13 244	HD 51 865	07 05·3	+25°34′	"	"	"	+3·5	19 43	21 13	3
13 245	AC 74 600	08 40·2	+27°27′	"	"	"	+3·5	21 27	22 57	4
13 246	BD 01 545	10 23·2	+25°30′	"	"	"	+3·9	23 02	00 32	1
13 247	BD AG 65 29	13 30·3	+25 19	"	"	"	+3 2	00 55	04 25	3
13 248	HD 154510	17 00·3	+25 14	"	"	"	+3 1	04 30	05 46	4

Focus Test

Clouds, Illum: 000
Fringes: NO

Focus set at 45-458 by Shier
read 23-53 by Dorn (tot-13)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1ᵘ20	+1°-4-'	0	6.20 A5	3-3-3 Binary Prog
	1ᵂ45	+[illegible]	)	7.71 K0	3-3-3 AG 25
	1ᵂ48	+27°46'	)	7.73 K0	3-3-3 AG 25
	1 53W	+[illegible]	0-1	7.46 K0	3-3-3 AG 25
	2 28W	+[illegible]	1	8.47 G5	3-3-3 AG 25
	0 19W	+[illegible]	1	7.56 K0	3-3-3 AG 25 + THIS HAS A FAINTER COMPONENT
		C.T.B.			10/7
					3 PHS. LOCKS NO HOLES.
					H. ON III.

Date Sat Mar 22-23, 1947 Hd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
~~13249~~	η Aur HD 32630	04 59.5	41 06	I 25	Focus	008		2010	3	
13249 (a)	η Aur HD 32630	04 59.5	41 06	I 25	E 103a O	008		2017	2029 4	
(b)							+3.0	2030	2036	+3 20
13250	11 Tau HD 35708	05 21.6	21 51	"	"	"	+3.0	2040	2052 1	
~~13251~~ F	Focus			OTB.						

Tuckerman up at 1845
Some better at 1945

Set focus —— 15.463
~~Focus~~ Vernier reads 23.61

Checked plunger + flipper.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				3.11 — B_3	no filters 8, Too cloudy now for Process.
20 27 4			0	3.11 B_3	better 5.5 set 5 Transparency variable.
2. 30	W 3 20				5, 5 set 9.
2. 52		21 54		4.66 B_3 SK	5, 5 set 5. Probably nothing on ✓ - Star lost.
					10/7

	MC	SC	MTW	STW
Mar. 24	$-57^s.7$	$+53^s.0$	$-01^s.0$	$+0^m.0$

Date March 27-28 1947 L-Nd/ Julian Day
Thursday

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13250	HD. 67402	08 02.7	+27 47	I-25"	E-1032O	008	-2.5	19 37	21 272	13.N
13250-A										
13250F	HD 81058	09 18.2	+26 20	"	"	"	-2.6	21 42	3	
	Flocculent					OTL.				

Focus set. Dec. 15.350

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 23 W	+27 38	0	7.72 Ko	3-3-3	
		+26 08	0-1	8.02 Ko	3-3	Clouds 22.00 - Closed
					10/1	shutters at 2230 Sky quite thick
						Cloud at midnight.

Date Mar. 30-31, 1947 YU/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
13251	HD 60298	07 28.7	+25 09	I-25	E103a	008	-2.0°	19h 57m	21h 57m 4	
13252	HD 91316	10 27.5	+9 49	"	"	"	-2.1	22 3	22 5	
	"	"	"	"	"	"	"	22 7	22 11	2
	"	"	"	"	"	"	"	22 13	22 21	
13253	HD 95363	10 56.5	+27 40	"	"	"	-2.1	22 30	00 30	1
13254	" 112753	12 53.9	28 00	"	"	"	-2.0	00 38	02 37	
13255	" 136274	15 14.7	25 04	"	"	"	-2.0	03 01	05 45	
	Iron-Line					015				

Frame at 15.398

Checked thumps & flipper

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21h 5m	2h 37m W	+25 0'	0→1	7.9 Go	3, 3, 3 Passing clouds until 19:50, then clear
22 5					4 Velocity Program
22 1		+9 33	1	3.61 Bob	4, 4 } 3 exposures on one plate
22 2	0 3 W				4, 4 }
00 1	1 45 W	+27 33	1	7.93 G2	3, 3, 3 Vel Program
1 1	2 15 W	27 43	1	8.26 G5	3-3-3
1 3	2 23 W	25 52	1	8.30 Go	3-3-3
					10/7

	MC	SC	MTW	STW
Mar. 31	−5T.4	+53.5	+26°.4	+0m.5

Date Mar. 31 April 1, 1947, L-M- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13256	HD. 40372	05 53.2	+01 49	I-25	E-103a-O	set 00B	+3.0	19 24	20 04	
13257	HD. 67544	8 03.4	+25 05	"	"	"	+3.0	20 16	21 56	
	First Just					OT3				

Focus set. Prism 15.461

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 04	2.26 W	01 -50	0	6.20 A5	3-3-3	Binary Light haze
21 ½	2 07 W	+24 57	1	7.98 G5	3-3-3	AG 25 ♈ More haze, clouds
					10/7	

	HC	DC	UT1	STV
	-9.56	-5.43	-24.3	∓0.1

next

Date Wednesday April 2-3, 1947 Hd-W **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13258	HD 90861	10 24.3	29 05	I-25	E103a0	008	+3.1	22 57	0021	3 2.0W
13259	106398	12 09 3	27 03	"	"	"	3.1	00 25	0243	4 2.5W
13260	144287	16 00.0	25 30	"	"	"	2.9	02 46	0436	1 0.W.
13261	154510	17 00 8	25 14	"	"	"	3.0	04 39	0519	2 1.5W
		Focus Test								

Seeing slowly from 21 00.
Showed 3 rd yr students 5. C

Left Jones at 15.46

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0021	2 20W	28 50	1-0	7.54	Ko 3,3,3	Vel. prog. Took brightness of pair N.E. WIND
0243	2 57W	26 47	0	7.88	G5 3,3,3.	AG. 25 SEEING NOT AS GOOD.
0436	101W.	25 22	0	7.48	Go 3,3,3	
0519	043W	28 08	0	7.56	Ko 3,3,3	spots spoiled
		O.T.B.			10/7	

2 PHs. LOADED, 8 PLATES IN DOME
H. ON N.

Date THURS, APRIL 3/4, 1947 WM/VV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 262	HD 56 88	07 22.5	+27 45	I-25	C 103.0	5.5	5.7	19 44	21 19	0
13 263	HD 101 28	11 34.3	12 5 52	"	"	"	5.5	22 56	0036	29 W
13 264	114093	13 03 4	35 21	"	"	"	5.6	00 39	01 49	13 W
13 265	123612	14 03.6	24 47	"	"	"	5.6	01 51	03 17	50 W
13 266	139651	15 34.0	24 51	"	"	"	5.6	03 21	05 17	1 W
		Focus Test								
			69							

Checked Plate scale
Flexure

Set 15.473 per Hour
Red 23.57 per Vern (=7mm-12)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2.4	2 W 18	+27°40'	0	7.63	KO	3-3-3	Very Poor — Haze from Hamilton
0036	1 39 W.	+27°32'	0-1	7.67	GO	3-3-3	" " Haze Bank Low in E.N
0149	1 13 W	25 06	1-0	7.12	Ko	3-3-3	" " " Clouds Approaching. 4 AM
0317	1 42 W	24 33	1	7.56	Ke	3 3 3	Haze
0.7	2 12 W	24 10	1-0	7.81	Ms	3 3/10/7	" Thick Clouds
	O.T.B.						

1 P.H. Lenses, Box of Plates Needed
IN DOME. Heat on Mirror & Cell

Sat. Aft 5/6. No visitors — rain, fog.

Date Mon. April 7-8/47 L/W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Incl
13267	HD. 116232	13 17.2	26 31	I-25	E-103a-O	Set 2.8	+1.9	00 06	02 48	
13268	HD 145458	16 06.0	23 45	"	"	"	+1.8	02 52	05 14	
			Focus Test							

Focus set Dec 15.497

Ending Time U.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Cloudy all day. A few breaks at sunset. Cracking at 6.00 Hazard passing clouds until 11.30 then quite good.
02 41	2 14 W	+ 26 16	0	8.00 K0	3,3,3
06 14	1 53 W.	+ 25 07	0	7.88 K0	3.3 3/10/7 Some haze
		O.T.B.			H. on M. 3 PHs. Loaded

Date Wed. Apr. 9-10, 1947 Hd 14 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13269	HD 71093	08 20.4	28 14	I-25	E103a-O	.008	+5.2	19 32	20 30 2
13270	HD 90018	10 18.2	26 04	"	"	"	+5.2	21 38	22 12 3
13271	HD 101277	11 53.3	25 52	"	"	"	+5.2	22 18	01 00 4
13272	HD 126307	14 19.6	27 53	"	"	"	+5.1	01 03	02 43 1
13273	HD 145457	16 06.0	27 01	"	"	"	+5.1	02 47	03 59 2
13274	HD 156362	17 12.0	27 16	"	"	"	+5.1	04 02	05 10 1

Focus Set

Checked plunger + flipper. Set Tower mic. 15.488
Visit from 2nd for 1st orientation Zo (~8) Vernier reads 23.157 (= Tab. − .13)
Showed 4, 2nd with 74" N showed double π with .9" Various Hyades with 5.9"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
10 30	W 1 00	28 03	1	7.05	K2 3,3,3	Vel proj
12 [illegible]	W 1 43	25 47	1	7.63	K0 3,3,3	"
[illegible]	2 16 W	22 35	1	7.67	G8 3,3 3	"
[illegible]	1 15 W	27 38	1	7.83	K3 3 3 3	"
[illegible]	[illegible] W	26 52	1	7.40	K0 3 3 3	[illegible]
[illegible]	[illegible] W	27 11	1	7.58	K0 3 3 3	
		O.T.B.			10/7	

H & M. 1 P.H. CLOSED

Note for 4 — poor connection in finder slight — possibly a break in the feed.

Date Sunday Apr. 13-14 '47 YO/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13275	HD 80327	09h 14m 0	+24° 51'	I-25"	E103aO	.008	+4.5°	19h 58m	21h 58m 4	1 50 W
13276	HD 91316	10h 27m 5	+9° 49'	"	"	"	+4.4	22h 07m	22h 08m 2	1 W
	"	"	"	"	"	"	"	22h 10m	22h 12m	
	"	"	"	"	"	"	"	22h 14m	22h 18m	
13277	HD 102646	11h 44.0	+28° 41'	"	"	"	+4.3	22h 27m	00 27 2	4 11
13278	" 118571	13 33.3	26 26	"	"	"	4.3	00 31	02 37 3	1 14
13279	" 137003	15 15.6	29 29	"	"	"	4.3	02 44	04 47 4	1 14
	Focus Spot						01.8			

Checked plungers + flippers

Sch focus micr. 15.4 Ez
Vernier reading 23.60

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1h 50m W	+24° 37'	0	8.00 G0	3,3,3	Vel program
	1h 54m W	+9 32	"	7.61 B0	8	3 exposures on one plate
			"		8	
			"		4,4	
	1 49 W	+28° 27	"	8.05 K0	3,3,3	Vel. program
	2 09 W	26 11	0	8.09 G5	3-3-3	" "
	2 32 W	23 13	0-1	8.14 K0	3-3-3	" "
					10-1	

Date Saturday Apr 14-15/47 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13280	HD. 82181	09 25.4	27 50	I-25	E 103a0	set .008	+7.5	19 56	20 40	1
13281	" 91148	10 26.3	24 36	"	"	"	+7.5	21 39	23 49	2
13282	" 120903	13 46.6	25 12	"	"	"	+7.5	23 35	01 55	3
13283	" 134246	15 03.7	28 53	"	"	"	+7.5	01 58	03 54	2
13284	" 155344	17 05.4	26 34	"	"	"	+7.4	03 58	05 00	1

Focus Test

Focus Std Proc. 15 517

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
20 49	0 24W	27 37	0	6.59 Ko	3-3-3	Binary Showed Dr. Williams' students (I Pisces 135) Saturn and Gamma Leonis.
[illegible]	2 33W	24 21	0-1	8.14 G5	3-3-3	AG 25
2155	1 19W.	24 57	0-1	8.05 Ko	3-3-3	AG. 25
[illegible]	0 02W	28 41	0-1	7.73 G6.	3-3-3	AG 25
05 03	1 06W	26 30	0-1	7.59 Ko	3-3-3	AG 25
		O.T.B.			10/7	
						2 P.Hs. Loaded H. on M.

Date Tues. April 15/16, 1947 Vm - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13 E85	HD 72208	09h 26m 5	+10° 05'	I-2.5	F1 Ha 0	SST c=3	+7°C	19 47	20 36 2	
13 E86	HD 86131	09h 51m 5	+2° 56'	"	"	"	+7.5°C	20 40	22 00	
	1947 Apr. 16	Wednesday.	About 4-5 inches snow. Cars stuck in land.							

Flower out
Plexer in

Sec Focus 15.875 mic

Vernier read 3754 (Ind-13)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1ᵂ29	-5°23'	0	6.55 AO	2-3-3	BINARY FRIEMAN	
		+23°38'	0	7.0 BKO	3-3-	AB=5	2½ CLOUDS DRIFTING ACROSS N & S 20% CIRRUS OBSCURE MOST OF SKY 22nd ★ PRACTICALLY INVISIBLE ON SCOPE

4PH's Loaded, 4 plates in D.
H on M.

	HC	SC	MTW	STW
Cyn. 16	-50.0	+59.2	-04°8	-0ᵐ3

add 1 min.

Date ~~Wed~~ Thurs Apr 17-18, 1947 HL - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
~~13287~~	~~HD 76752~~	08 53.0	25 48	~~I-25~~	Σ 10300	008		20 14		1
13287	HD 114093	13 03.2	25 21	I-25	Σ 10300	008		23 42		2

Friday April 18-19 1947 H-L Cloud, lit lightning

Saturday April 19-20, 1947 WW-L Overcast; about 30 visitors

Very dirty for a while after sunset.

Set focus 15.508
Mic reads 23.58 (= tub − 0.10)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		25-35		7.7 K03	Vel Prog Thick at 2035
				7.12 K03,	" " Thick at 2354
					NOT MINE SO DIDN'T CHUCK IT. Breaking a little 0000 - 10 waited
					2 P.H. hidden H. on PA
					Cyg 2 −49.7 +51.5 +0.5 −0.3
					Cyg 21 −48.8 +60.3 −0.6 −0.4

Date Sunday April 21-22/47 L Wm/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13287	H.D. 79373	09 08.6	+25 26	I-25	E103a O	.008	+5.2	21 53	21 43
13288	H.D. 00179	1 26.6	+24 52	"	"	"	+5.1	21 58	00 10
13289	HD. 125796	13 58.9	27 55	"	"	"	+5.1	00 14	02 20
13290	HD. 152032	16 45.9	26 23	"	"	"	+5.1	02 24	STAR GONE 03 20

Focus Test

Tuesday April 22-23, 1947 Wm-W Overcast to cloudy - light rain.

Focus at Prime 15.480

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	2 11 W	+25 13	0	7.99 K_0	3-3-3
[illegible]	2 21 W	+24 35	0	8.15 K_2	3-3-3
[illegible]	1 59 W	+27 43	0	7.69 G_5	3-3-3 E. WIND QUITE STRONG, AG 25. SOME HAZE
[illegible]	0 12 W	+26 17	0	7.99 K_0	3-3-7/10 E. WIND DECREASED SUDDENLY, HAZE THICKENED. AG 25
		O.T.B.			

2 P.Hs. LOADED. BOX OF PLATES NEEDED IN DOME.

H. on Dd.

Date Thursday, April 24-25 [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	HD 81935	09h24m	+15° [illegible]	I-25	[illegible]	[illegible]		20 16	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					20:43; not so much as 10m on this plate, nothing being added now.
					Apr. 25 MC +47.4s SC +61.7s MTW +12.6s STW −0.2m

231

25 - 26 9th.

Date Friday, Apr. ~~26~~ 25-26-27 Yu/L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Secz Angle Ind
13291	HD 87737 7 Leo	10h 1.9m	+17° 15'	I-25"	E103aO	.008	+7°.8	21h 24m	21h 26	
	"	"	"	"	"	"	"	21h 28m	21h 32	
	"	"	"	"	"	"	"	21h 34m	21h 42	
13292	HD 105702	12h 5.0m	+6° 32'	"	"	"	"	21h 55m	22h 25	3
13293	HD 102646	11h 44.0m	+38° 41'	"	"	"	"	22h 40m	01 00	2
13294	" 130766	14 44.9	25 35	"	"	"	7.8	01 [illegible]	03 25	4
13295	" 156 775	17 14.9	25 59	"	"	"	7.7	03 31	04 45	1
	From East					OTA				

Sat Apr 26-27 Hd Rain. 41 Visitors Showed slides + demo

Check plunger + flipper

Focus Ref 15.5-24

Mirror Pos 3.7, 23.55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21h 25m			0	3.58 Aq	4, 4	Cloudy, clearing at 21h
21h 32m			"	"	4, 4	
21h 45m	1h 35m W	+17° 00'	"	"	4.4	
22h 12m	0h 12m W	+ 6° 05'	"	6.02 F_0	3, 3, 3	
0h 00m	3 00W	+28° 24'	"	8.05 K_0	3, 3, 3	Vel focus
0h 30m	2 35W	25 21	0	8.06 K_0	3-3-3	" "
0h 55m	1 23W	25 30	0	7.61 K_0	3-3-3	
					10-7	

Date Sunday April 27-28, 1947 H-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
13296	HD 100041	11 25.6	+29 00	I-25	E103a0	008	+5.1	21 48	23 38	1	-W
13297	120421	13 44.2	+28 22	"	"	"	+4.9	23 40	01 20	2	
13298	136901	15 18.1	25 39	"	"	"	+4.9	01 25	03 39	3	
13299	166781	18 07.1	26 38	"	"	"	+4.9	03 [illegible]	04 43	4	
	Focus Test					OTB					

Transit at 15,488 micrometer 23.57 n 58 min.
Observat from transit on; tracking interrupted @ 20'15"

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23 39	2 14 W	+28 44	0-1	8.05 M0	3-3-3	AG 25 Setting circle 22h-27m
01 [illegible]	1 38 W	28 07	0-1	7.63 G5	3-3-3	AG 25
03 10	2 24 W	25 48	0-1	8.22 K0	3-3-3	" "
04 47	0 39 W	26 38	0-1	7.49 G5	3-3-5	" "
					10-7	

	MC	SC	MTW s	STW m
Apr. 28	+45.0	+73.4	+28.2	+0.2

Date Monday, April 28-9 1947 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Blue Angle End
13 300	HD 101 325	11h24m.1	+45°12'	I-25	Eastman O	.002 SE	73	19h57m	20h37m	137
13 301	HD 101 306	11h35m.6	+42°53'	"	"	"	73	21h04m	22h34m	141
13 302	HD 112 257	12h50m.3	+25°13'	"	"	"	74	23h10m	* STAR Comp 02h06m	132
		Focus Set								

Ten Visitors spent 2; passing clouds & light haze

Sat Night 29 Haze and light clouds thickening steady

gazing at 3 AM.

Sun:

Mon:

Tues, May 6-7 Solid overcast; mist.

Plunger in
Flipper out

SLT FOCUS 15·5·9 mic
very windy 23:57 (9 Feb -11)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1W37	+1[illegible]'	1	7.26 A5 3-3-3	BINARY PEEP
	1W21	+2.1°13'	2	8.05 K0 3-3-3	~~VEL PROG~~ AG [illegible]
	[illegible]	+2.1 e3	1	8.30 G5 3-3 3	" "
		O.T.B.			

N

23 K [illegible]
28 16 - [illegible]

4 P.H. loaded, 4 plates in but 1 up-
- orally - unexposed

		H. m M. MC	S.C.	MTW s	STW m
Apr.	29	-45.6	+1046	-27.2	-0.9
	30	-46.1	+103.3	-24.9 adv. 1 min.	-0.7
May	2	-45.8	+103.9	-19.4	-0.7
	5	-45.6	+105.0	-08.6	-0.6
	6	-45.0	+105.7	-03.6	-0.6
May	8	-45.2	+106.5	-00.0	-0.4
	9	-44.8	+107.1	+03.2	+0.2

TEMP. +32° F.

Date Friday, May 9-10; Y.O./W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13303	HD 87737	10h 1.9m	+17° 15'	I-25	E103a-O	.008	+4.8	20h 11m	20h 13m	
	"	"	"	"	"	"	"	20h 15m	20h 20m	1
	"	"	"	"	"	"	"	20h 22m	20h 29m	
13304	HD 97334	11h 7.1m	+36° 21'	"	"	"	+5.0	20h 09m	21h 29m.2	
13305	HD 110628	12h 38.4m	+26° 40'	"	"	"	"	21h 40m	22h 46m.3	3
13306	HD 122693	13h 58.3m	+25° 03'	"	"	"	"	22h 55m	0057	4
13307	HD 144287	16 21 0	+25 30	"		"	+5.1	01 02	0331	1
13308	HD 164073	17 10 5	+36 11	"			+5.2	02 42	1120	2

Trans Test

Sch Focus 15.485
Ver reading (23.5°)
Checked plunger & flipper

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		+17° 0′	0	3.58 A_2	10.	
			"	"	5,5	
	1h 12m W		"	"	5,5	
	1h 10m W	+36° 5′	"	6.88 G_0	3,3,3	
	0h 48m W	+26° 23′	1	6.99 F_0	3,3,3	
	1 47 W	+24° 49′	1	7.92 G_0	3,3,3	AG 25
	1 28 W	+25 22	1	7.44 G_0	3 3 3	AG 25
	2 08 W	+16 07	1	7.70 K_0	3 3 3	AG 25
		0-T.B.			10/7	

2 P.Hs Lost, Box of Plates Inserted
H. on M.

Date Sat May 10-11, 1947 Hd - /w/ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13309	HD 108722 ~~HD 111283~~	12 24.4 ~~12 43.1~~	24 39 ~~24 39~~	I-25	E103a-O	008	+11.3	21 58 ~~21 [illegible]~~	0 0 48 3	
13310	HD 180583 ~~HD 180316~~	19 12.0 ~~19 11.0~~	27 45 ~~27 46~~	"	"	"	+11.3	0 0 58	0 1 39 4	
13311	HD 150530	16 36.9	25 03	"	"	"	+11.4	0 1 45	0 2 31 1	
13312	HD 159768	17 32.4	27 39	"	"	"	+11.3	0 2 35	0 4 19 2	
		Focus Test								

Set Focus 15.569
About 70 visitors showed by with 74" Dewar - covered 4. with 4".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	3 16 W	24 22	0	5.91 F5 ~~7.92 G5~~ 6.56 F8p	3,3,3	AG 25 Vel prog	Wrong star; second exposure started on plate. SKY HAZY & SCT-BKN; IMPROVING.
	2 39 W	27 50	0-1	~~5.51 B5~~	4. 5	BINARY	Wrong star; cannot identify star taken; no star at posn given by hr. ∠ and dec.
	2 11 W	24 57	1	7.00 K2	3.3.3	AG 25	
	1 41 W	27 36	1	8.00 M0	3.3.3	AG 25	
		0 T.S.			10/9		
							3 P.Hs. Lo. 0.2 D. H. on M.

	MC	SC	MTW	STV
Mon May 12	−44.3 s	+68.1 s	+14.1 s	−0.1 m
May 13	−44.4	+68.4	+17.6	−0.1 m

1947

Date Sun. May 11-12 Wm - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13313	NO NEB	12h 44m	+26° 58'	1-25	[illegible]	[illegible]	NBS 17.2	[illegible]	00 34	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2	45W	+26° 42'	0	ZEIKO 3-3-3	AG25

Some haze and clouds.
Cloud apart 230 sky hazier.

see clock correction previous page.

1947

Date Monday, May 12-13, Y.U./W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13314	HD 110628	12h 7.2m	+26° 40'	I-25	103a-O	.008	+20.5°	21h 46m	23h 1½m, 4	
13315	HD 126006	14h 17.4m	+29° 51'	"	"	"	+20.4	23h 33m	00 43 , 1	2h W
	9 Dw:	Focus Test								
	1947 May 17-18 Saturday			N	Ta No					
	Cloudy and showers.									
	About 70 visitors; showed slides and telescope (mirror down to be aluminized)									

Cloudy until 21h 20m Checked plumper + flipper

Sch focus 15.695

Ver. reading 23.35

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
23h	38m W	+26° 24'	1	6.99 F_0	3, 3, 3	
0043	26 W	+25° 24'	"	7.94 M_2	3. 3 3	AG 25
		A.T.B.			19/	

4 PMs Lamped. H. on M.

HAZY ALL AROUND BELOW 45°

SKY THICKENING. STARS GONE 2nd 3

WATER CLAMPED A LITTLE. CLOSED 0300 E.S.T.

Gerry - Done turning the standpipe heads like cards stopping.

Monday May 19	MC	SC	MTW	STW	SW
	-43.2s	+70.4s	+9.8s	−.3m	+41.2s

1947

Date Tues May 20-21 S H No Ta **Julian Day**

Plate No.	Object	R.A. 1900 ~~50~~	Declination 1900 ~~50~~	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13316	NGC 5272	+13 39 9	+28 38	I-Newt				20 50	20 53	
13317	4147	12 07.6	+18 49					21 00	21 10	
	~~5904~~	~~15 16.0~~	~~+02 16~~							
13318	6229	16 45.6	+47 37					21 30	21 45	
13319	6229	"	"					21 48	22 02	
13320	6229	"	"					22 05	22 21	
13321	6229	"	"					22 24	22 40	
13322	6229	"	"					22 46	23 02	
13323	6229	"	"					23 06	23 22	
13324	6229	"	"					23 25	23 41	
13325	6205	16 39 9	+36 33					23 52½	23 55½	
13326	5904	15 16.0	+02 16					00 01	00 04	
	5634	14 27.0	−05 45							

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 53		+23	'Not too bad'		
21 10	0 37 W				
21 [illegible]	[illegible] 2 E				If Guiding
22 02	3 09 E		Not too bad		
22 2	2 50 E				
22 [illegible]	2 32 E				
23 02	2 09 E				
[illegible]	1 49 E		Poor		No Guiding
[illegible]	1 22 E				
23 55	1 10 E				
00 [illegible]	0 24 W				Closing in
					Closed up 0045.
					Thursday May 22 N.C. -43.3 S.C. +71.1 M.T.W. +15.5 S.T.W. +0.3 B.W. +79.9

1947

Date Thurs. May 22-23 S-H-No-Ta-D Julian Day

Plate No.	Object	R.A. 1900.50	Declination 1900.50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13327	NGC 5272	13 39.9	+28 38	1 Mount.	E-103a-O	—	—	21 00	21 03 2	C 55° E
13328	5024	13 10.9	+18 26					21 07	21 12 1	C 16E
13329	4147	12 07.6	+18 49					21 16	21 2[illegible] 2	C 15W
13330	4147	12 07.6	+18 49					21 22	21 38 1	1 2
13331	6229	16 45.6	+47 37					21 57	22 13 2	2 SC
13332	6229	16 45.6	+47 37					22 15	22 31 1	2 2 E
13333	6229	16 45.6	+47 37					22 33	22 49 2	2 1/4 E
13334	6229	16 45.6	+47 37					22 52	23 08 1	1 55 E
13335	6229	16 45.6	+47 37					23 11	23 27 1	1 3.E
13336	6229	16 45.6	+47 37					23 29½	23 45½ 1	1 1E
13337	6229	16 45.6	+47 37					23 48	00 04	0 55 E
13338	6229	16 45.6	+47 37					00 06	00 22	0 41 E
13339	6205	16 39.9	+36 33					00 25	00 27 2	2 2 E
13340	5904	15 16.0	+02 16					00 36	00 39 1	1 SW
13341	5897	15 14.6	-20 49					00 43	00 53 2	2 W

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 22	0h 55m E				focused on ζ Virginis
21 2	0 16E				
2. .	0 55W				40 sec exposure.
21 3	1 13W				
23 3	2 50E				— focused on 2 Com Ber. aurora in N.E.!
23 1	2 32E				
22 4	2 14E				
23 0	1 50E		Poor		No. guiding Auto pointing
23 5	1 36E		Better		" "
2. .	1 18E				S. "
0. 0	0 59E				
0. 2	0 41E				
0. 4	0 30E				Focussed on Sup.
0. 5	1 05W				
0. 7	1 21W				

Date Thurs May 22-23 S-H No-To-D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13342	NGC 5634	14 27.0	-05 45	I Newt	F103a o	—	—	00 57	01 11	
13343	6093	16 14.1	-22 52	"	"			01 15	01 20	
13344	6171	16 29.7	-12 57	"	"			01 26	01 36	
	6333	17 16.2	-18 28	"	"					
13345	6333	17 (17.8)	-17 (43)	"	"			01 57	02 11	
13346	6356	17 29.7	-17 46	"	"			02 15	02 29	
13347	6356	17 29.7	-17 46	"	"			02 32	02 46	
13348	6838	19 51.3	+18 38	"	"			02 51	03 03	
13349	6838	19 51.3	+18 38	"	"			03 04	03 10	
13350								03 16	03 22	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 11	2 27 W				
01 2	0 49 W				Not guided, out of reach
01 3.	0 48 W				
					Trouble with observing carriage; can't reach. (motor will drive)
01 2	0 33 W				No guiding, dark night
01 2	0 51 W				5 guiding exposure superposed on that of plate 13344
01 4.	1 07 W				
01 57	1 04 E				Program suspended to readjust motor of carriage
01 2	0 58 E				
03 22	0 10 E				
					May 23-24 [illegible]
					May 24-25 { 4 visitors shown the telescope — Guiding — cloudy + hazy part of night
					Clear EST then filling in
					May 25 — Start part cloudy + hazy at 2 A.M. E.S.T. —
					part still hazy but quite cloudy

Date Sunday May 25-26/47 No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13351	H.D. 152306	16 97.5	+28 17	1-25"	E-103-0	.006	+13.2°C	23 35	00 29	1
13352	156652	17 13.7	+27 02	"	"	"	+13.0	00 32	01 46	2
13353	174741	18 52.7	+28 04	"	"	"	+13.0	01 50	02 20	3

began breaking about 22.30± – strong NW wind with scattered frac and stratocumulus clouds then clearing almost completely 23.00

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 25E	+28 12	0-1	7.72 Gs	3-3-3	Focus set 15.5 ft – replaced plate in holder before stating. Slight flatness apparent – chart recorder in operation clouded out from H. Dr 02.20 ! clear entire surface of mirror scattered clouds 02.50 – 03.15 followed by fog
	0 25W	+28 57	0-1	8.09 Mo	3-3-3	
	0 39E	+28 06	1	2.00 Ko	3-3-3	

	MC	SC	SW	MTW	STW
May 26	-44.0	+1m 11.8	+02.4 (adv. 2m)	+27.4	+0m.5

Date Mon. May 26-27/47 L-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13354	HD. 116029	13 15.9	25 10	I-25	E-103a-O	Set .008	14.3	21 30	22 52	
13355	133459	14 59.5	27 28	"	"	"	14.1	22 57	00 11	
13356	149047	16 27.3	26 04	"	"	"	14.1	00 16	02 10	
13357	165959	18 03.5	26 24	"	"	"	14.0	02 13	03 09	
13358	181344	19 43.3	29 14	"	"	"	14.0	03 12	03 54	

Focus Lost

Wed May 28 Cloudy with rain during night

Focus set. Mw. 15.612

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Shared R.H. Mon's Clut the Moon and Gamma Leonis.
	1 32 W	24 54	0-1	8.35 Ko	3-3-3 AG. <5
	1 08 W	27 15	0-1	8.27 Ko	3-3-3 AG. 25
	1 40 W	26 56	0-1	8.62 Ko	3-3-3 AG. 25
	1 02 W	26 32	0-1	7.73 Ko	3-3-3 AG. 25
	0 22 W	29 18	0-1	7.49 Ko	3-3-3 AG. 25
		0 T. 3			10/7 Set 1½
					3 P.Hs. LOADED. H on M.
					[illegible] 1·1 12.3 [illegible] +3.5 +2.6 ?
					8.C. m.c. S.W. m.T.W. S.T.W.
					June 2 +1 14.4 -45.3 +87.6 +124.7 +2.1

Date Thurs. May 29-30/47 L.G.-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13359	HD 131972	14h 57.2m	124° 48'	I-25	E103AO	SET .008	10°C	23:07	00 27	
13360	165-473	18 01.1	+29 04	"	"	"	10°4	00:39	02 17	
13361	164-278	17 58.3	+45 21	"	"	"	10.4	02 28	03 14	
13362	187462	13 45.0	+17 29	"	"	"	10.6	03 20	03 51	
				Spare Plate						

Focus set 9mm 15.564

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
1 44W	24°35'	0-1	8.16 Ko	3-3-3	A.G 25. Clouds early evening then clearing.
2 27W	+23 03	0-1	7.84 Ko	3-3-3	Hands 01:03 / 01:40
1 26W	+45 18	0-1	7.44 Ao	3-3-3	Binary
1 12W	+27 14	0-1	7.28 Go	3-3-3	
	O.T. 3.7/7				Light turned out in Nipie

Date Fri May 30-31/47 TaTh- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
13363	HD 114037	13 02.7	+27 03	I -24	E1031a-O	.008	10.8	21 47	22 37	1
	Focus test									

Sat May 31-June 1 About 200 visitors. Showed ε Boo and ζ with 4". H & h Praesepe with 4" & 2"-
Hd, No, G, Ho.
Cloudy-cloudy-cloudy! Cl. in clouds during entire night of observing up by 2:30 No.

Sun June 1-2 Partly cloudy + hazy

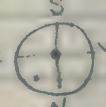
Fremont Mtn. 15" 563

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
22 17	1 45 W	+2 6 47	0-1	8.36 to	3-3-	Full cloud 2150. Heavier 2215
					7-7	Continuous cloud to 2240 Abandoned
						exposure released up.
						2 Pits. looked. Heat in mirror
Pol						

Date Tues Jun 3-4/47 G-Ta/N. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13364	HD 105262	12 02.1	+13 33	I-25'	E103a O	.008	15.0	20 40 m	21 20	-.47 W
13365	110118905	13 06.8	-27 12	I-25			15.0	21 31	22 13	-.07 W
13366	127093	14 24.3	+26 18	"	-	"	15.0	22 17	23 13	.18 W
13367	133330	14 58.8	+28 40	"	"	"	15.0	23 17	23 41	.11 W
13368	124287	14 00.0	+25 30	"	-	"	14.9	23 45	00 27	.52 W
13369	157978-917	21 25	+57 41	"	"	"	14.8	00 33	01 53	1.00 W
13370	152013	17 21.7	+57 05	"	"	"	14.8	01 07	01 36	1.16 W
13371	162901	17 49.3	+25 00	"	"	"	14.9	01 34	03 22	.19 W
13372	173607	18 45.1	+24 56	"	"	'	14.8	03 26	03 50	.10 W
	Time test - outside three bars 7'/65									

Transit 15.614

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag. Comp	REMARKS
21 50	1 47W	+4 ? 1 +	0	698 Bg 3-3~3	Wm * Stm ? ? ? occasionally
22 13	1 07W	+26 55	0	730 K. 3-3-3	
23 13	1 18W	+26 03	0-1	7.79 Mo 3-3-3	
23 54	1 11W	+28 26	1	690 A. 3-3-3	Wm +
0 ?	0 57W	+25 21	1	748 G, 3-3-3	
0 55	0 01W	+07 37	1	6.4 G 3-3-3	 Double * as seen in finder. thin cirrus now moving in from NW telescope seems out of balance in Dec. ? mm 1.30W - tried shim between mirror cell & platform after dropped mirror, cradle and [illegible] with other mirrors.
1 31	0 36W	+57 03	0-1	6.61 A_2 3-3-3	
2 12	2 04W	+27 57	0-1	8.5+ Ko 3~3~3	
2 51	1 36W	+24 57	0-1	6.62 Ar. 3-3-3	

Wed June 4 SC MC SW M Tw S TW

+1m14s7 -45s6 +1m50s +2m11s9 +2.2

Saturday June 7/8. Rain. Wored 7½" for 4 visitors.

261

Sunday.

Date June 8-9 YU/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13373	H.D 125336	14h 13m.7	+10° 58'	I-25	E103a-O	.008	18°.5	21h 00m	21h 40m	
13374	H.D RY Boo 130818	14h 45m.2	+22° 27'	"	"	"	18°.6	21h 48m	22h 30m	
13375	H.D 139007	15h 24m.5	+25° 20'	"	"	"	"	22h 40m	23h 45m	
		Same	Same							

Checked Plunger & Flipper
From set 15.666
Ver. read 23.40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	5h 14m W	+10° 44'	0	7.21 A_3	3-3-3
	5h 33m W	+23° 14'	0	7.4 F_5-	3-3-3
		+25° 8'	0	8.30 G_5-	3-3-3 AG 25- Clouds 23h 40m
		O. T. B.			10/7 Put on by Degi.
					4 P.Hs. Loaded
					Clouds from S.W. Probably overcast
					Hydros Closed 00 30

Date Mon. 9-10/47 Tue-Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15572	HD 15318	2 43 8	+13 40	1-23	[illegible]	008	17.2°	23 05	23 58	
15573	15318	17 05	+13 11	"	"	"	17.2	24 03	01 05	
15574	15318									
	Focus					4/6				

WATCH CORR^{N} ~ 0^{m} [illegible] + 2^{m}

Set from 1547

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
0 57	+28 28	0-	690 Azm	3-3-3	Wm + Upper [illegible]
[illegible]	[illegible]	0	770 Ko	3-3-3	[illegible]
[illegible]	[illegible]	1	[illegible]	3-3-3	[illegible]
		fair	good		

	S.C	M.C.	M T W S	S T W M
June 10	+1 18.2	-47.8	+26.1	+0.4

Date Tues June 10-11, 1947 Hd-Nc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13379	Alcor HD 116842	13 21.2	+55 30	I-25	Panchro	008		20 52	21 22	1
								21 22	21 52	
							23.2	21 52	22 22	
13380	"	"	"	"	"	"		22 24	22 56	2
								22 56	23 26	
							23.1	23 26	00 04	
13381	HD 115618	13 09	+28 24	I-25	F10	.008	23.3	00 11	00 41	
13382	18 Com	13 18	+25 08	"	"	"	25.4	00 47	01 17	
	Sun	out	- thin	thought			7 3/4			

Hour Angle End

Set Focus = 15.734
Vernier reads = 3.734 (Hab. − .12)
Checked plunger + flipper.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Exposures		REMARKS
		55 10	1	4.16 A5	8, 8	Set 1	Telescope runs away badly north
					8, 8	" 6	of the zenith (in dec, that is)
					8, 8	" 9	
					8, 5	" 1	
					5, 8	" 6	
	3 2 38				8, 8	" 9	
	L 52 W	+21 56	1-2	3.91 B5	8-3-3		good
	L 27 W	+25 10	2	3.74 B5	8-3-3		guiding! good

Next on Dec

Date Wednesday June 11~12, 1947 W.G. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13383	HD 105262	12h02	+13°33'	I ~25	E-103a0	0.008	25°0 C	21h12m	23h2[illegible]
13384	HD 145457	16 cl.	27 01	"	"	"	25°.1	[illegible]	00h 37
10385	165557	15 01 C	28 41	"	"	"	25.1	00 44	Sto. Vac. 02 30
~~[illegible]~~	~~171500~~	~~18 32 4~~	~~29 40~~						
	164898	17583	45 21	"	"	"			
		Focus Test							

Set focus 15.765
Checked plunger and flipper.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	+13° 15'.4	○	6.9 & B1	Comp 3~3~3 Gr. pointing with mirrors [illegible]
1h 31m	+26° 50'	0	7.10	3~3~3 AG 25 G. guiding [illegible]
	26° 39'	0	7.86 Ko	3-3-3 AG 25" DEC. READING NOW [illegible]
			~~7.25 Ko~~	Had to omit owing to clouds.
			~~7.44 Ao~~	" " BINARY " "
	O.T.B.			10/7

H. on M.

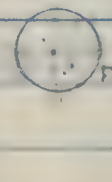
3 P.Hs. LOADED.

[illegible] -157 +1 15.5 +3°.0 +0.5

Date Sunday, June 15-16, 1947 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13386	AG 9516	18588	2909	I-Z	Z 103a0	.005	15.4	01 45	03 03	
13387	19559	20267	2621	"	"	"	15.5	03 10	03 52	
		Focus Test								

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3 03	1 21 W	29 12	1-2	8.42 Ko	3-3-3	
3 52	0 41 W.	26 30	1	7.71 Ko	3-3-3	
		O.T.B.			10/7	



I R.H. LOADED NEW BOX PLATES OF EDGE

H. NOT ON M.

	M.C.	S.C.	M.T.	S.T.
June 16	-3 1 0	+1 22	+3 7 7	+0 1 5

Date Tuesday, June 16-17, 1947 I-G Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13388	Alcor HD 116842	13 21.2	+55 30	I-25	Process	.039	18.3	21 [illegible]	21 47	
						"	17.5	21 48	22 [illegible]	
							17.2	22 37	23 07	
13389	Alcor						17.5	[illegible]	[illegible]	
							17.4	23 47	00 [illegible]	
							17.4	00 28	01 [illegible]	
13390 9/10	HD 116867	13 09.5	+29 52	I-25	Process	.039	17.4	01 13	2 [illegible]	
13391 9/11	HD 116876 M	13 45.4	+26 50	I-25	Process	.039	17.4	02 50	3 40	

...ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp. Setting	REMARKS
	1h 4m W	+5° 15'	1	4.16 A.	8~8 no fitter	1
	2h 26m W	+7° 5' +	1+		9~8	6
	3h 06m W	+5° 15'	1+		7~8	9
	4h 2m W		1		8~8	1
	5h 26m W		1		8~8	6
	6h 0m W		1+2		8~8	9
	6h 56m W	+21° 51'	2	8.05 K.	3~3~9	
	7h 29m W	+25° 5½'	1~2	7.44 K.	3~3~3	4

Focus test at 10, 0 at setting 9. 3 loaded plate holders left in north pier.
Clear all night. Seeing improved during last exposure.

1947

Date Saturday June 17 18, S.L.-No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
13392	N.G.C. 5904	15 16.0	+02 16	Newt	E-103-O	—	—	21 22	21 25	
13393	" 6229	16 42.6	+47 37	"	"	—	—	21 33	21 47	
13394	" 6205	16 42.6	+47 37	"	"	—	—	21 51	22 07	
13395	" 6229	16 42.6	+47 37	"	"	—	—	22 05	22 25	
13396	" 6205	16 38.5	+36 33	"	"	—	—	22 29	22 31	
13397	" 5857	15 14.6	−20 49	"	"	—	—	22 35	22 48	
13398	" 5713	14 37.6	−00 05	"	"	—	—	23 53	23 03	
13399	" 5634	14 27.0	−05 45	"	"	—	—	23 11	23 23	
13400	" 6171	16 21.1	−12 57	"	"	—	—	23 27	23 35	
13401	" 6093	16 14.1	−22 52	"	"	—	—	23 39	23 45	
13402	" 6779	19 11.6	+30 05	"	"	—	—	23 49	23 55	
13403	" 6838	19 53.5	+18 38	"	"	—	—	00 10	00 20	
13404	" 5836	15 51.2	+01 56	"	"	—	—	00 24	00 44	
13405	" 6751	19 02.0	+21 47	"	"	—	—	00 50	01 00	
13406	" 6355	17 16.2	−13 46	"	"	—	—	01 01	01 19	
13407	" 6101	17 16.2	−43 53	"	"	—	—	01 10	01 [illegible]	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 25 E				Found a big + two faint stars !
1 31 E				Light passing clouds
1 13 E				
1 [illegible] E				
[illegible]				
[illegible]				
1 [illegible] W				
2 22 W				spirals visible? Found on 2 fields Focus out by 1/4 turn.
0 31 W				
0 54 W				
1 32 E				
2 [illegible] E				
1 42 E				W- guiding - lose +
1 24 W				
1 18 W				
1 [illegible] W				W

1947

Date June 17-18 S-L-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
40 13958	M&C 6712	18 50 3	-38 47	Neut	E 103a O	—	—	01 33	01 47	
40 13959	6656	18 33 1	-32 58	"	"	—	—	01 51	01 55	
41 13960	6838	19 51 3	+18 38	"	"	—	—	02 00	02 10	
41 13961	6639	18 02 1	-07 33	"	"	—	—	02 14	02 28	
41 13962	" 6712	18 50 3	-08 47	"	"	—	—	02 32	02 46	
41 13963	" 7089	21 39 3	+21 03	"	"	—	—	02 51	02 53	
41 13964	6864	20 03 2	-22 [illegible]	"	"	—	—	02 58	03 04	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2 W				
	1 1 W				
	0 1 E				
	1 5 2 W				
	1 2 2 W				
	1 1 2 E				
	2 2 W				Not centered [illegible]
					June 18 M TSS +46.3 S TSS +0.7

Date Wed Jun 18-19/47 S-No-Ta **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
1335	NGC 5904	15 16.0	+02 16	Newt	Eastman	-	-	21 26	21 29	1	
1336	6229	16 45.6	+47 37	"	"			21 34	21 40	2	
1337	6229	16 45.6	+47 37	"	"			21 41	21 55	1	
1338	6229	16 45.6	+47 37	"	"			21 56	22 10	2	
1339	6229	16 45.6	+47 37	"	"			22 12	22 24	1	
1340	6205	16 39.7	+36 33	"	"			22 27	22 [illegible]	2	
1341	5897	15 14.6	-20 49	"	"			22 36	[illegible]	1	
1342	5897	15 14.6	-20 49	"	"			22 41	22 58	2	
1343	5634	14 27.0	-05 58	"	"			23 07	23 21	1	
1344	6402	17 51.0	-03 43	"	"			23 30	23 44	2	
1345	6093	16 13.1	-22 52	"	"			23 47	23 51	1	
1346	6171	16 29.7	-12 57	"	"			23 54	00 02	2	
1347	6333	17 16.2	-18 28	"	"			00 04	00 11	1	
1348	6356	17 20.7	-17 40	"	"			00 14	00 28	2	
1349	6366	17 [illegible]	[illegible]	"	"			00 29	00 43	1	
1350	6333	17 16.2	-18 [illegible]	"	"			00 45	00 51	2	

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 19 E				Focus Temp
	1 37 E		Rather poor		
	1 22 E				
	1 06 E				
	0 52 E				
	0 41 E				
	1 03 W				
	1 18 W				
	1 34 W		Lousy		No Guiding Temp 8 Libr.
	0 21 E				
	1 07 W				
	1 22 W				
	0 38 W				
	0 57 W				
	0 54 W				
	1 04 W				

Date Wed Jun 18-19/47 S-No-To **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
13 43/58 1	NGC 6402	17 35.0	-03 13	Newt	E10 2-0	—	—	00 51	01 07		1
13 43/58 2	6287	17 03.0	-22 40	"	"			01 15	01 29		2
13 43/58 3	6342	17 18.2	-19 32	"	"			01 33	01 57		1
13 43/58 4	6626	18 33.8	-23 53	"	"			01 59	02 03		2
13 43/58 5	6642	18 38.4	-23 30	"	"			02 10	02 34		1
13 43/58 6	6402	17 35.0	-03 13	"	"			02 38	02 52		2
13 43/58 7	6779	19 14.6	+30 05	"	"			02 56	03 10		1
13 43/58 8	6838	19 51.3	+18 38	"	"			03 03	03 07		2

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 04 W				No guiding
	1 56 W				
	2 03 W				
	1 00 W				
	1 35 W				No guiding
	2 47 W				
	1 15 W				
	0 40 W				
					NEW FLASHLIGHT BATTERY NEEDED

Date Thurs. June 19-20/41 S-N D **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
4 3 13-89	N.G.C. 6181	16 30	+47 16	Newt.	F 1340	—	—	21 24	21 27	
4 4 13-90	6229	16 48	+47 37	"	"	—	—	21 33	21 37	
4 4 13-91	6229	16 48	+47 37	"	"	—	—	21 38	21 52	
4 4 13-92	6229	16 48	+47 37	"	"	—	—	21 54	22 03	
4 4 13-93	6229	16 48	+47 37	"	"	—	—	22 04	22 21	
4 4 13-94	6205	16 37	+36 33	"	"	—	—	22 25	22 37	
4 4 13-95	6402	17 36	-3 13	"	"	—	—	22 52	23 10	
	6177	16 26	-26 42	"	"	—	—			
4 4 13-96	6171	16 28	-13 07	"	"	—	—	23 12	23 30	
4 4 13-97	6171	16 29	-12 57	"	"	—	—	23 30	23 42	
4 4 13-98	6402	17 36	-3 13	"	"	—	—	23 47	00 01	
4 4 13-99	6093	16 14	-22 52	"	"	—	—	00 04	00 10	
5 13-100	6253	17 16	+18 28	"	"	—	—	00 12	00 18	
5 13-101	6356	17 20	-17 46	"	"	—	—	00 20	00 34	
5 13-102	6332	17 16	-18 28	"	"	—	—	00 36	00 52	
5 13-103	6403	17 56	-15 36	"	"	—	—	00 55	01 07	

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	2^h 16^m E				Forward on Lupi.
	1 35 E				
	1 23 E				
	1 24 E				
	1 5 E				
	0 41 E				
	0 16 E				Dark Clouds drifting
					contact on for about 1/2
	0 1 W				clouds clearing by 2:30
	0 7 W				— focused on γ Capri.
	0 21 E				
	0 31 W				
	0 36 W				
	0 47 W				
	1 00 W				
	0 [illegible] W	[illegible]	[illegible]	[illegible]	[illegible]

Date Fri. Jun 20-21/47 S-No-To Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1344	NGC 5904	15 16.0	+02 16	Newt	E1210	–	–	21 23	21 26	1
1345	6229	16 45.6	+47 37	"	"	–	–	21 31	21 35	1
1346	6229	16 45.6	+47 37	"	"	–	–	21 36	21 48	2
1347	6229	16 45.6	+47 37	"	"	–	–	21 52	22 04	2
1348	6221	16 44.6	+41 37	"	"			22 05	22 17	2
1349	6205	16 38.9	+36 33					22 21	22 24	1
1350	6402	17 34.0	-03 13					22 37	22 43	2
1351	6366	17 24.1	-05.03					22 46	22 52	1
1352	6171	16 29.7	-12 57					23 00	23 10	2
1353	5897	15 14.6	-20 47					23 12	23 22	1
1354	6402	17 38.0	-03 13					23:31:31	23:51:31	2
	KA 107	17 42.5	-0 11					23 56 17	00:16 17	
1355	NGC 6093	16 14.1	-22 52					00 20	00 26	1
1356	6333	17 16.2	-18 28					00 30	00 36	2
1357	6356	17 20.7	-17 46					00 39	00 53	1
1358	6603	18 15.6	-18 36					00 56	01 16	2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 13 E				focusing c - 2 secp. 2 ms 2 sec p
1 32 E				
1 20 E				
1 04 E				
0 52 E				
0 34 E				
1 15 E				
0 58 E				
0 17 W				
1 [illegible] W				Hanging in W
0 06 E				No guiding * 2 ms 50 p.u.
0 11 W				" Saycon to
1 50 W				
2 22 W				
1 54 W		[illegible]		
0 33 W				

Date Fri Jun 20-21-47 S-No. 15 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle	
1341 6/9	NGC 6333	17 16 2	-18 28	Newt	E103a-0	-	✓	01 19	01 25	1	
1341 7/10	6656	18 33 3	-23 58	"	"	-	-	01 29 30	01 33	2	
1341 7/11	6838	19 51 3	+18 38	"	"	-	-	01 43	01 47	1	
1341 7/12	6838	19 51 3	+18 38	"	"	-	-	02 44	02 48	2	
1341 7/13	6779	19 14 6	+30 05	"	"	-	-	02 52	02 55	1	
1341 7/14	7087	21 3 9	-01 03	"	"	-	-	03 02	03 05	2	

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 47 W				
	0 37 W				Unguided Focus & Aquil
	0 27 W				No. guid —
	0 13 W				
	1 21 W		Marvellous		
	0 45 E				

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1347/5	HD 150930	16 36.9	+25 [illegible]	1-33	[illegible]	0.008	+22.0	23 03	23 [illegible] 2	
1347/6	[illegible]	[illegible]	[illegible]	"	"	"	+21.9	23 30	[illegible]	
1347/7	[illegible]	[illegible]	[illegible]	"	"	"	+21.8	01 39	2 16	
1347/8	[illegible]	[illegible]	[illegible]	"	"	"	+21.8	02 10	3 48	
		Terrace Park								

Focus

Hour Angle End	Declination	Seeing	Ptg. Mag.	Guide	REMARKS
0 -7 W	+24 57	1-2	7.00 K_2	3-3-3	guiding good
0 26 W	+25 06	1-2-3	8.76 K_3	3-3-3	"
1 09 W	+28 24	2 - 2	7.85 K_0	3-3-3	guiding good
1 -7 W	+30 20	2-3	8.72 K_0	3-3-3	guiding l wk.
	D T B				focus OK

3 P.Hs located.

Date Sunday June 22-23 Yu/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
13479	H.D. 111813	12h 51m.4	+38° 52'	I-25"	E103a-F	.008	26°2	20h 53m	20h 57m	
"	"	"	"	"	"	"	"	20h 55m	20h 56m	
"	"	"	"	"	"	"	"	20h 58m	21h 00m	
13480	H.D. 130818	14h 45m	+61° 37'	"	"	"	"	21h 20m	22h 05m	
13481	H.D. 136202	15h 18m.8	- 9° 57'	"	"	"	26°3	22h 14m	22h 20m.4	
13482	H.D. 150305	16h 37m.4	+39° 52'	"	"	"	"	22h 31m	23h 40m.1	
~~13483~~	~~H.D. 156~~	~~15h~~	~~-~~	"	~~-~~	~~-~~	~~-~~	0h 5m	~~-~~	
13483	HD 166070	18 03.9	27 23	"	"	"	26.4	00 23	02 00	
13484	HD 188259	19 49.2	26 15	"	"	"	26.4	02 06	03 40	
			~~Focus~~	Test						

Checked plunger of Fpl
290

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	+35° 15'	1	2.90 A_0	10
				10 } too close - comp. wedge
				5-5 } plates incorrectly numbered.
	+23° 13'	1-2	7.4 F_2	3-3-3
	-10° 12'	"	5.36 F_0	5-5
	+25° 45'	"	8.07 G_5	3-3-3 AG 2-5 good focus OK
		"		
1 40 W	3 21	1-2	8.65 K_0	3-3-3
1 35 W	26 20	2	8.57 K_0	3-3-3 movement of tel. in RA. is jerky & jaggy; too stiff. Axe needed in clamping. 1 weak 1 weak
	O.T.B.		10/7	

4 PHs. LOADED

Saturday's plates in old plate box. Sunday's plate in new box. Have to take lumps of broken glass out of old box. See if some holes still not plate box!

+02.8 0.3
advanced 1 minute

Date Monday 23-24/47 S. No. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13485	NGC 6229	16 44.6	+47 37	Wide	[illegible]	–	–	22 07	22 21	1
13486	6229	16 45 6	+47 37	"	"			22 23	22 27	2
13487	6205	16 39.9	+36 33	"	"			22 30	22 32	1
13488	6402	17 38.0	-03 13	"	"			22 37	22 51	2
13489	5897	15 14.6	-20 49	"	"			23 16	23 26	1
13490	6333	17 16.2	-18 28	"	"			23 29	23 35	2
13491	6356	17 20.7	-17 46	"	"			23 38	23 52	1
13492	6402	17 38.0	-03 13	"	"			00 07	00 21	2
13493	6287	17 02.0	-22 49	"	"			00 26	00 40	
13494	6333	17 16.2	-18 28	"	"			00 43	00 49	2
13495	6325	17 14.9	-23 42	"	"			00 55	01 19	
13496	6401	17 38.5	-23 53	"	"			01 24	01 44	2
13497	6402	17 38.0	-03 13	"	"			01 48	02 02	1
13498	6626	18 21.5	-24 54	"	"			02 06	02 12	2
13499	6656	18 33.3	-23 58	"	"			02 14	02 18	1
13500	6717	18 49.1	-22 50	"	"			02 23	02 33	2

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0 37 E		Marvellous!		Focused α Serp. Trouble with N-wt platform down motion
0 30 E		Seeing getting worse!		
0 20 E				
0 06 E		Getting good here		Focus & Optic. Recollimated slightly
1 59 W				
0 05 W				
0 20 W				Focus V Optic
0 35 W				No guiding
1 20 W		Seeing getting worse, hangup!		
1 21 W				
1 53 W				No guiding — focus guide star (faint)
1 57 W		Getting good		" "
2 10 W				
1 39 W				Ha & d 3Y W slight in correction for arcsec hysteresis
1 33 W				
1 32 W	−22 51			Slow thick [illegible]

Date Monday June 23-24/41 S-Te-No Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13501	NGC 6838	19 51·3	+18 38	Newt	Eastman O	—	-	02 46	02 56 2	2 54
13502	6779	19 46	+30 05	"	"			03 00	03 06 1	41

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2 50	0 54 W				2 mirrors/Ag on No guiding. Put # 1 [illegible] lights.
3 10	1 41 W				NB forged plate placed in plate box (15" from end)

Date Tues June 24 1947 S.N.T. **Julian Day**

Plate No.	Object	R.A. 1900 5m	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13503	NGC 6093	16 14 1	-22 52	Newt	E33a o	–	–	23 34	23 42	
13504	5904	15 16.0	+02 16	"	"			23 46	23 50	
13505	6779	19 14.6	+30 05	"	"			23 55	00 03	
13506	6838	19 51.3	+18 38	"	"			00 06	00 16	
13507	6171	16 29.7	-12 57	"	"			00 21	00 33	
13508	6333	17 16.2	-18 28	"	"			00 37	00 47	
13509	6366	17 25.1	-05 02	"	"			00 57	01 13	
13510	6218	16 44.6	-01 52	"	"			01 20	01 27	
13511	6254	16 54.6	-04 02	"	"			01 31	01 37	
13512	6712	18 50.3	-08 47	"	"			01 40	01 54	
13513	6626	18 21.4	-24 54	"	"			01 57	02 05	
13514	6656	18 33.3	-23 58	"	"			02 07	02 13	
13515	6838	19 51.3	+18 38	"	"			02 16	02 26	
13516	7089	21 30.9	-01 03	"	"			02 33	02 37	
13517	6981	20 50.7	-12 44	"	"			02 42	03 01	

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 20 W				Excellent Seeing.
2 27 W				
1 20 E		Poor. Lapses		
1 4 E				
1 56 W				
1 24 W				
1 41 W				Jupiter Optic(x) Engaging
2 36 W				Jupiter guide x() no longer
2 55 W				
0 50 W		very [illegible] — Dn		
1 36 W				
1 33 W				
0 25 W				Telescope turns very stiffly in R.A.
1 02 E				To guiding
0 03 W				Clamp in SW
				Shutter low with

Date Wed June 21-26/49 Th-D-G Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13518	HD 116494	13 19.5	+12 57	3-5"	E 103-0	0.08				
13519										
13520								22 26		
13521							20.9	23 52		
13522							23.9	0 54		
13523							27.9	1 48	3 30	

NO DIRECTIONS

Focus at 0234?

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
[illegible]	12 34	2-1-1	7.50 G1	7 - 3	l. wk
1 17	25 32	1-2-1	7.23 G5	3-3-3	guiding fine
1 38	29 [illegible]	1-2-1	9.42 B5	3-3-3	l wk.
49	4-5 21	2-1-1	7.44 A2	3-3-3	fine
2 12	57 13	1-1-1	8.11 A2	3-3-3	l wk
[illegible]	[illegible] 41	1-2-1	7.23 G5	3-3-3	flipper in use
	1 T B		104		
			2 F H; LDB		
				1 FULL MAP	
				1 PARTLY FILL	
				3 BRASS PLATES	
				111 SLIDES	

Date Thursday, June 26-27/47 L.S. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
13524	HD 132564	14 [illegible]	21 27	I · 25	[illegible]	Set .008	+24.8	20 59	22 45 3
13525	[illegible]	15 [illegible]	29 45	"	"	"	+24·6	22 56	0 06 4
13526	HD 135[illegible]	17h 2m 9	+57 05			"	+24·6	0 22	0 44
13527	HD 136454	15h 45m 3	+27° 36'			"	+24·7	1 01	2 21
13528	HD 136615	15h 2m 7	+29 47	I-25	[illegible]	[illegible]	+24·2	2 40	3 41

Seven Lit Grid 15:17:0

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
1 48 W	-21 15	0	8.10 Sc	3-3-3 AG. 25
1 27 W	-21 32'	0-1	8.07 Sc	3-3-3
1 21 W	-15° 02'	0-1	6.61 M	3-3-3
1 09 W	-21 37'	0-1	8.12 Sc	3-3-3
1 01 W	-21° 54'	0-1	8.09 Sc	3-3-3

First Focus Test Scale. This Plate Test made on separate plate marked "Focus Test #2".

Date Sat June 28/29 '47 Wm - D Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
13529	HD 150013					.008	27.5	22 45	23 05	1
13530	149142	16 27.8	+26 15				27.4	23 11	00 [illegible]	2
13531	170619	18 25.3	+29 30				27.3	00 56	01 [illegible]	3
13532	169108	19 53.3	+28 26				27.2	02 04	02 52	4
13533	200925	20 58.3	+2[illegible] 96				27.1	02 56	03 [illegible]	5
	Focus test									

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	Focus set 15.805 REMARKS
[illegible]	[illegible]	2	6.61 H_2	3-3-3	bit of haze in sky generally.
[illegible]	+26 09'	2⁻2	8.27 G_5	3-3-3	
[illegible]	+29 30	2	7.90 G_5	3-3-3	
[illegible]	+28 33	2⁺	7.70 K_0	3-3-3	trouble with holder H3 slipping in camera. Persist out with extension.
[illegible]	+25 57	3-2⁻	8.07 G_5	3-3-3	Setting 5 Seeing deteriorating after before dawn, haze and ground fog
				10·7	
					3+8 plates in alone

3 303

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

Ending Time
E.S.T.